monthly **MOVING BEYOND PAPERS**

EDITORIAL

Dear readers,

New Year greetings from Team Ruiaite! 'Mumbai Local'. Explore what the colors to your life, as Art Wall talks about Looking back, 2018 offered all of us passenger wants to say to the window the spectrum of colors in an Avian. Know many exciting, new things, as well as seat in an open letter presented in about various careers related to winter in some surprises- both good and bad. Op-Ed. Buzz Around will take you to a Career Wise as you curl up with your However, looking at the brighter side, the political journey where you'll come phone, bundled up in a warm blanket! good moments should be appreciated across the Election fiasco, which will give Team Ruiaite Monthly congratulates and the bad ones, taken as nothing but you an insight of the current political Natyavalay on their amazing experiences which taught us something situation in India. Do you know your Final achievement, since it's another feather in or the other. Taking the golden Destination? Safarnama talks about the Ruia's cap. Behind the Scenes will talk opportunity that 2019 has offered us, places where the columnists would like about Natyavalay's journey and the which is to present our readership to settle in future, which would make you experiences of the team for another amazing edition of the Ruiaite think about your favorite one. 'Ekadashavtar', the play which made its Monthly, here is our very first edition for Is technology always safe? Tech-tricked place in the hearts of audience. this year. Like always, we've brought you sheds light on some privacy issues faced Enclosing, we wish you a very happy and some really amazing reads for January by individuals due to the license prosperous 2019, hoping that you have agreement of companies, and the video another great year! Stay tuned on our month as well. The flying time takes us to Insight, which morphing Artificial Intelligence which Instagram, Facebook, and YouTube talks about 'Time'- its various theories has its own perils. Discover some pages for updates, interesting videos, and many other interesting aspects. developments in science contributing to and much more! Till then, Happy What exactly would it be? Gujarta waqt the welfare of mankind in Science of Reading! hi batayega...so make sure you have a Everything, and read about the beautiful good "time" reading it! A very crucial inspiration by the Moon in Open Forum. thing which has made a part of Fictionally Yours this times presents an Mumbaikars' lives from time immemorial interesting read on Historical Fiction, the

is explored by Op-Ed: the magical Brown History. Don't miss this one! Add

The Ruia College Alumni Association organized the Jewel of Ruia and Rising Star Awards function on the 15th of December, 2018 to felicitate those ex-Ruiaites who have excelled in their domains. This year's Jewel of Ruia awardees were Padma Shri Ujwala Patil Dhar, a freelance journalist; and Lt. Gen. Satish Prabhakar Nawathe, a Vishisht Seva Medal honoree. Along with these jewels, Ruiaites who have started their careers and are poised to soar high were presented the 'Rising Star' award. Mr. Nakul Ghanekar, a renowned face in the dance industry; and Ms. Yogita Tambe, a visually challenged musician who can play more than 50 instruments were felicitated.

When the stars shined in their glory... THE 'JEWEL OF RUIA' AND **'RISING STAR' AWARDS CEREMONY** 2018

Ramnarain Ruia College, Matunga



Rising Stars of Ruia, and a message wishing them luck for the future. The awardees enlightened the audience with their experences and the challenges they faced on their journey.

The RCAA took this valuable opportunity to release their Annual Newsletter, after which, the Chief Guest, Smt. Pushpa Bhave addressed the guests and the audience. The program was concluded by Ms. Sanjeevani Gharge, the Secretary of RCAA who expressed her vote of thanks to the guests, audience, and the RCAA members for making the program a success.

The Ruiaite Monthly congratulates The Jewels of Ruia and The Rising Stars, and wishes them all the best for their upcoming prospects!

The chief guest for the program was Smt. Pushpa Bhave, who is a social activist, and also an ex-faculty member of Ruia.



The function started with a speech by Mr. Padmakar Sathe, the President of the RCAA, followed by a listing of Ruia's achievements in 2018 in the address by Ms. Anushree Lokur, I/C Principal. The accomplishments of the awardees were showcased through a special video highlighting their endeavors in the past years, which contributed to their excellence and success in their field. This was followed by a reading of the 'Scrolls of Honor', which detailed the feats of the Jewels and the





UTSAV AAROHAN 2018 UTSAY AAROHAN





Chilly days of December are synonymous Table Tennis, Chess, Carrom and many more. December 22 that put forth a crucial with vivacious vibes echoing in the Colosseum was too organised by RSC (Ruia message of avoiding Noise Pollution without quadrangle of

the much awaited annual festival, marks its contests like Treasure Hunt, Singing, their arrival.

Customarily, 2018 too merry cheer

lasting up to next four days. First day saw of some wellknown the amalgamation of Colosseum with Indoor bollywood celebrities. and

Dancing, Writing,

Performing under various categories; which headphones. witnessed the contributed to enhancement of creative The event ended on a grand note with happy celebrating their triumph with the presence one

What stood out as the pinnacle of this four legacy Outdoor Sport events namely Badminton, day journey was the Silent Disco evening on ahead making it better with each year!

Students' Council) popularly known as VPM compromising on enjoyment. It pulled in a RamnarainRuia College as UtsavAarohan, It was followed by numerous colorful great number of party heads who danced

> hearts out to the tunes playing in

commencement of UA on December 19 with skills of the competitors with winners tears in the eyes of seniors who relished it for

last time and tons of hopes and ambition in the hearts of juniors, pledging to carry the

Bioanalyze is an academic festival organised by department of Bioanalytical Sciences as a co-curricular activity.

This year, it was held under the guidance of assistant professor

Dr. Madhura Dhavale as an event co-ordinator and Head of the

Bioanalytical Sciences, Dr. Sachin Palekar. Bioanalyze'18 was conducted on 24th December 2018 as a part of "Samnvay" which is an inter-department festival of Ramnarain Ruia Autonomous College. On the festival day, Dr. Sachin Palekar

inaugurated the event with his cheerful and enthusiastic words. Students of M.Sc. Part-I class had decorated the

corridor around N-213 with thoughtful scientific crafts. There was a witty and funny scientific photobooth and a special rangoli showcasing the immunology basics.

Students of M.Sc. Part-II class organised the various events in Bioanalyze'18. Brainvita was a combination of a general knowledge quiz and dumb-charades based on scientific terms. Labathon had created a miniature forensic laboratory

At 10 am on 24th of December, 2018, a Monday in S1 began session а celebrating vivid sexual preferences. The English department's annual Literary festival titled Madhatters had 'Gender' Bender' as it's central theme. Efficienctly planned and managed by the Students of the department, the schedule was linedup with events and competitions. Decorated with fancy hats, cute creative clocks and fascinating gender symbols. The venue looked magnificent with Fairy lights and thematic posters. Volunteers wore a black T-shirt and a quote displaying the tagline of the event -

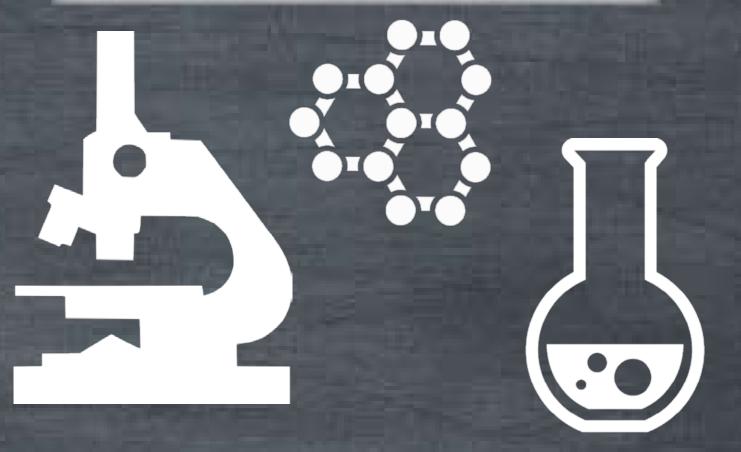
Bioanalyze 2018



B. Joanalyze'l8

A glimpse into Bioanalytical Sciences Fest and competitions on contemporary scientific concepts





Machatters

set-up where deductive skills of students were tested. Hunt Mania was a treasure hunt, involving clues in the form of science-oriented riddles.

A scientific poster competition was held in Bioanalyze'18 as a part of DBT star college activity. The topics for the poster competition were- "Biology and

Society", Bio-entrepreneurship- a way to prosperity" and "Futuristic Bioanalysis." The competition was judged by

Dr. Ajit Datar, Sr. Advisor, Shimadzu Analytical India Pvt. Ltd. and Dr. Aarti Sohoni, Vice Principal, Ramnivas Ruia Junior College.

The department continued its tradition of playing Scientific Housie towards the end of the festival. It was housie with a twist of science, general knowledge, sports, films, and cartoons. Prize

distribution ceremony took place after the scientific housie.

To conclude the ceremony, a vote of thanks was presented by Dr. Sachin Palekar and Dr. Madhura Dhavale. The Bioanalyze'18 ended on a happy note and with great memories and excitement for the coming years.

brainstrom on gender based concepts and terns while their cannon and fandom skills were the tested in 'Cannon challenging fandom quiz'. 'Creative writing competition' Was organised in which the students were made to choose a chit and in the perspective of the persona given, they had to edit a given excerpt. The 'Open mic' encouraged the participants to express their opinion on themes like gender, sexist and gendering.

Mrs. Seema Rajendran (parent of a TYBA English lit student) sponsored

"What's your pronoun?"

It began with enacting excerpts of a sexist play 'Dance like a man' by the Indian playwright Mahesh Dattani which was beautifully performed by the SYBA students. It was followed by a humorous skit by TYBA students entitled as R.I.P. English highlighting the common errors in spoken English. Literary taboo, Cannon-Fandom quiz along with open mic and creative writing contest were the highlights of the event. The 'Literary' taboo' encouraged the participants to



delicious food for the event. Prizes and certificates were distributed to the winners of all events and the actors of the first two skits. After which, a brilliant guest lecture was given on the taboo topic of LGBTQ by Dr. Raju Patole, a dignified professor. Madhatters, 2018 elevated not only the intellectual aspects but also proved to be an enriching experience in understanding the idea of Gender.

Himadree Devnath (TYBA English Literature)

The month of December is a month of festivities and enjoyment in all the A Day to celebrate Folk Culture of India the Samanvay colleges. Under Festivals) the (Departmental Department of History -Rajatarangini had its annual festival "Mudra " on 24th December 2018. The theme for this year was FOLK-E-STAAN. Accordingly, the five events were designed which portrayed the Folk Culture of India. The event was inaugurated in full vigour with a display of the Maratha weapons by the Dharmayodhha Shambhuraje Yuva Sanstha. By performing different

"FOLK-E-STAAN"



was "Itihaas Gawah Hai" (Quiz) an event college judged the event.

questions based on the Folk Culture of organised wherein Ms. Vishakha Howal, a students on Folk Culture of India. something showing the Folk Life from auditorium. Beginning with the "Folk Dept Prof. Dr. Louiza Rodrigues. the waste materials provided to them. Walk" (Folk Fashion Show) which was

judged by a successful model like Ms. Malaica Kokane and Actor, Lyricist and Director Mr. Sanman short film Chandanshive. The audience were enthralled when the judges walked the ramp. This was followed by the "Lok Kala" Manch"(Folk Performance) event. Well known singer Mr. Ajay Dehade and famous Actress and dancer Ms. Sukanya Kalan judged the event and even performed for the audience. There was a large participation of students from different colleges of Mumbai for all the competitions. The Chief Guest for the deadly stunts with the Dandapatta, The participants made very unique items Valedictory function was the eminent Talwar, Bhala, Katyaar, Kurhad and like a traditional bride, musical Marathi actress Ms. Aditi Sarangdhar several others they left the audience in instruments and even a whole scene of a who shared the memories of her college their awe. After this grand inauguration village life. Mrs. Vijaya Kadam who is the days with the audience and distributed the competitions began. The first event Junior College teacher of History of Ruia the prizes to winners. Finally the day ended with the wonderful cultural in which the teams had to face the A workshop on Warli Painting was performances by the department

India. The teams were very enthusiastic Warli Art Professional introduced the The event was well managed by the and went through all the challenging participants to this tribal art and later volunteers and was a success because of rounds. The next event was "Folk even judged the participants' work. The the great motivation and support of the Artefact" (Best out of the Waste) in post-lunch events were more engaging teachers Dr. Pradeep Waghmare, Dr. which the participants had to make and gathered a huge audience in the Mohsina Mukadam and Our Head of the

-Riddhi Joshi TYBA (B)

BUZZAROUND

to visit once in your lift

A new twist in Indian politics

Elections are always seen as the BSP, SP, main event in our country. So when candidates. it came to results of assembly polls between of Rajasthan, Chattisgarh, Telangana, and Mizoram, on 11th of December, the whole nation was seeing this Sabha elections.

MIN

But somehow when the results came out the majority of the Indian population was either shocked or surprised.

The most epic battle was fought in Madhya Pradesh where BJP had an advantage of 0.1% over congress in vote share yet Congress managed to go ahead as it won 114 seats and BJP won 109.

What made the difference was a dip minister's of the majority in the 230 seat 17. assembly. A few days later Congress Chattisgarh claimed support of 121 MPs including comfortable victory for Congress as big test again in 2019.

and There Kamal Nath Madhya Pradesh, Jyotiraditya Scindia but later that performance chief minister.

situations were similar to that of MP share changed a lot as Congress managed to win 100 seats but BJP 0.5% in vote share but a decrease in and mega irrigation schemes. K. C. drop in seats won. In Rajasthan, Minister of Telangana. Congress just managed to cross the Mizoram voted for the Mizo National post. Among in BJP's urban vote share which was candidates were Ashok Gehlot and 10-year rule of Congress party in the largely capitalized by Congress. Sachin Pilot, out of which Ashok state. MNF chief Zoramthanga Congress was only two seats short Gehlot swore in as CM on December swore in as the next CM.

> the Was

independent it won 68 out of 90 seats. was a race Chattisgarh saw a drop in rural vote and share which led to BJP's poor the farmer in week Kamal Nath swore in as the dominated state. Bhupesh Baghel swore in as the next chief minister.

Rajasthan was the next victim of a In Telangana, under the charismatic blockbuster as a prequel to 2019 Lok dip in BJP's urban vote share. The leadership of K. Chandrasekhar, the ruling party Telangana Rashtra as BJP won the rural vote. But seat Samithi retained power by securing a landslide victory. TRS won 88 out 119 assembly seats in the election. won only 73. Congress led by only Large credits were given to welfare urban support resulted a drastic Rao again took the oath as the Chief

> simple majority mark which resulted Front (MNF) as people took away in instant discussions of chief Congress's last outpost in eight the state northeast. This ended the

> > BJP has a lot to learn from these most results as they prepare to face the

Recap 2018!

As we proceed to the next year, here is a look at the important events that happened this year.

1. We lost many famous and important personalities including our Former Prime Minister - Shri. Atal Bihari Vajpayee, eminent scientist Stephen Hawking, actress Sridevi, politician M. Karunanidhi and the creator of comic superheroes - Stan Lee.

2. Boxer Mary Kom, Shuttler P.V. Sindhu were among the many sportspersons who brought glory to India.

3. The world's tallest statue of Sardar Vallabhbhai Patel - 182 meters tall, overlooking the Sardar Sarovar Dam on the Narmada river was inaugurated by Prime Minister Narendra Modi on October 31, 2018.

4. #MeToo Movement in India gained momentum.

5. Natural calamities like the Kerala deluge, Cyclone Gaja and California wildfires brought immense damage to life and property.

6. ISRO added a feather to its cap by launching many satellites including India's heaviest satellite – GSAT -11.

7. A five-judge bench of The Supreme Court by unanimous decision decriminalized Section 377 on September 6, 2018, making homosexuality legal.

8. The Supreme Court gave a 4 -1 historic verdict against the rule that disallowed girls and women in the 10-50 age group from entering the Sabarimala Temple in Kerala on September 28, 2018.

9. Pakistan opened the Kartarpur Sahib Corridor in November to facilitate visa-free pilgrimage by Indian Sikhs to Kartarpur Sahib Gurudwara in Narowal district.

10. The Delhi High Court convicted senior Congress leader Sajjan Kumar in 1984 Anti- Sikh riots case.

11. The Supreme Court gave a clean chit to the government in the Rafale Jet Scam.

12. Congress made a comeback in the recent elections held in the states of Madhya Pradesh, Rajasthan, and Chattisgarh.

Swati Achwal

Top 10 News of the Month

1. Former economic affairs secretary Shaktikanta Das was named the 25th governor of the Reserve Bank of India (RBI) to succeed Urjit Patel, who quit abruptly amid a bitter dispute over the regulator's autonomy.

2. PM releases Rs 100 commemorative coin in memory of Vajpayee.

3. Indonesia tsunami: 373 dead, over 1,000 missing. Disaster struck the coast of southern Sumatra and the western tip of Java when a volcano known as the "child" of Krakatoa erupted, which in turn, triggered a tsunami - in which powerful waves of a height of 30-90 centimeters (1-3 feet) lashed the area.

4. P.V Sindhu - The world champion. She won her maiden gold at World Tour Finals Championship held in Guangzhou, China.

5. The US government shutdown as the Congress rejected President Trump's proposal for building the wall on the border with Mexico which would cost 5 billion dollars.

6. Finance minister Arun Jaitley said the Centre and states were close to completing the first stage of GST rationalization by removing most items from the 28% slab with a convergence of the 12% and 18% bracket being the next step in the process.

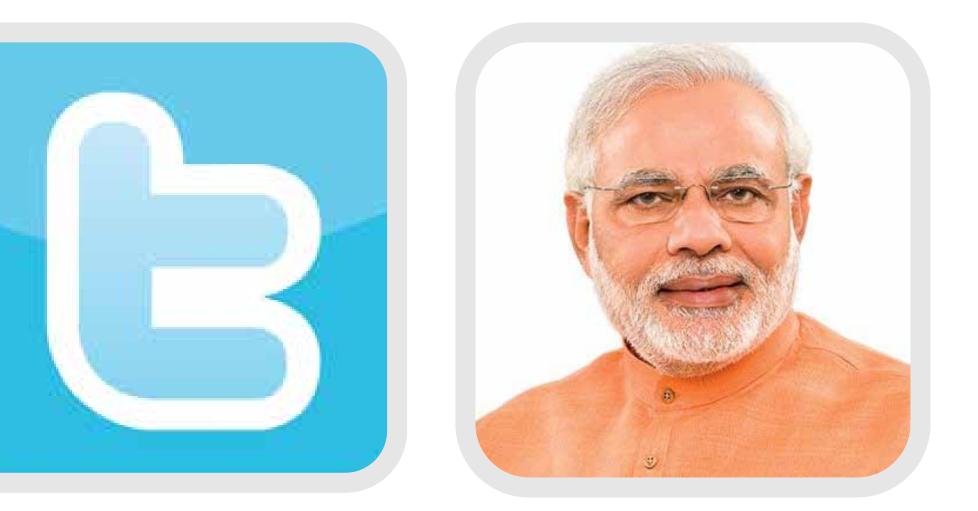
7. Assam Railroad Bridge, India's Longest, opens on 25th December. The Bogibeel Bridge in Assam has a two-line railway track on the lower deck and a three-lane road on the top deck. It will reduce the Delhi to Dibrugarh train travel time by about three hours.

8. Close aide of Kashmir al-Qaeda cell chief Zakir Musa among six militants killed in the encounter. The six killed are said to have belonged to the militant group Ansar Gazwat ul Hind, led by terrorist Zakir Musa

9. The government is considering changes in the IT Act to force internet, chat and social media companies to trace and identify people behind objectionable and unlawful content posted or spread over the internet.

10. Delhi records coldest December in 12 years as the temperature dropped to 3.7 degree Celsius.

Pushkar Bhatlekar



Twitter tweet:

Narendra Modi on twitter :

"At the core of good governance is compassion and taking steps that bring a positive difference in the lives of the poor. "



Cold Wintery Careers

Winter is here and so is the season for various seasonal careers. Winters boost not only traditional careers but also the tourism industry and others. This time, let's look at some careers which are particularly visible during the winter season. Some of them are well-known while some of them will surprise you!

Camping

Want a weekend getaway with friends? There are various types of camping such being more sporty, adventurous and Here is the answer! Camping is an as tent camping, summer camps, hiking, doing some things just out of the blue for outdoor activity involving an overnight and backpacking etc. One of the simplest better memories and incredible

stay away from home in a shelter such as types is tent camping. You get to experiences. electricity, or network. Camping can be a lot of new things. enjoyed in all four seasons, but we see a Camping is a great holiday. It takes time field : number of campers during the winter and effort to set up time and place and the wonderful views.

be encouraged towards camping for program.

a tent. People leave worldly luxuries and experience nature and the great However, you can turn your love for amenities behind for a few days and outdoors. It warms a person's heart. You camping into a career. With the spend time in more primitive and natural also get to do amazing activities popularity of camping on the rise, the conditions. Think no proper housing, throughout the day which will teach you career opportunities have also improved. There are various job opportunities in this

season. One of the greatest aspects of work but each time a person camps he - Camp director ordinarily refers to a camping is being away from the will find a better way of doing some person who is directly involved with the monotony of daily life. Spending quality things and that is part of the fun of operation and management of a camp time with each other and just enjoying camping. However, it is all worth the program and whose duties cover both effort as you will love it. So people should the administration and creating the

refers to В coordinates and program administrative functions, relying on support from the onsite camp/conference center. Director of outdoor programs or some variation may be used to specify the person who the outdoor field — day and/or resident camps, education, conferences and camps, etc. This position more service. coordinating, often involves administrative planning, and responsibilities.

- Camp administrator ordinarily - Associate or assistant director is the person person who who assists the administrator and is often administers more than one camp responsible for an aspect of camp or for directing a specific program such as education environmental the or

director or program director. - The trip leader is the person who, under various titles, leads groups on expeditions, trips, and outdoor experiences, usually for extended periods.

administers various programs in - Site and facilities manager is the person who oversees the maintenance and upkeep of the outdoor Campsite and facilities.

Food service director has the responsibility to retreats, outdoor events, troop plan, direct, and supervise the camp's food

-Qualifications required for a career in Camping: Advanced degrees are helpful but not always essential. A B.A. or B.Sc. degree is usually required and is helpful in the areas of recreation, youth development or group work, liberal arts education, outdoor education and/or usually camping. Training broad liberal includes а education and camp administration.

So if you like to spend your time camping in nature and want to explore it more career then camping is an optimum choice for you.

Snowboarding is a recreational activity and an Olympic and a Paralympic sport which involves descending down a snow-covered hilltop on a snowboard. It was invented in the US in the 1960s and later featured in the winter Olympics for the first time in 1998. Some of the larger snowboarding contests include the European Air & Style, the Japanese X-Trail Jam, Burton Global Open Shakedown, FIS World Series, Championships, the annual Dew Winter X Games and the Winter Dew Tour.

Snowboarding requires one to have a great body balance in order to be successful. Also, you need to be on your toes at all times as you will be achieving great speed coming down the slopes. You also need to have One can also become a snowboarding granted and just assume they will be ok. A excellent vision in order to see the obstacles instructor. Deciding to become a snowboard large percentage of the world's resorts will

body posture which will help you do all the to 5 and the seasonal nature of the sport can really set you apart, and could be the airborne.

Being a professional sport, earnings solely career in sport can feel even more Snowboarding is a challenging career for depend upon how good you are at the challenging. But if you love life on the snow, sportsperson as well as for the instructors. sport. Sponsors and sports endorsements there's more than a 'snow load' of reasons. However, if you get experienced and well are a very important part of a sports why a career as a snowboard instructor versed with it no one can stop you from person's earnings.

Snowboarding



change. And if you're female, sometimes a getting the job. could be for you.

Qualifications: There are various courses run for the same which helps you to be an instructor -not only in India but across the world. There are other useful qualifications to help you stand out: First Aid, Avalanche Safety Training (AST), Snow Park Certificate (freestyle instructor), Race Coach and Adaptive Coaching Qualifications among others. While the key levels of instructing are the most important (Levels 1-4), additional courses such as those mentioned can really help to bolster your knowledge, expertise, and responsibility around the resort- all areas that Ski & Board Schools look for. While English may be the international language of the world, many take that for in your way while there is snow all around. instructor isn't the easiest career decision. hire English speaking instructors but having You need to be flexible and have a good It's definitely a long way from the standard 9 an additional language under your belt will

amazing acrobatics snowboarders do while often encourage a complete lifestyle difference between you and someone else

ascending.

Internships for Students

The winter holidays and the winter semester is usually seen as a 3.Please, please, and please do NOT mass email - it doesn't work. It students in this process like the following:

Internshala is an internship and online training platform, based out 5.Spelling mistakes, SMS language, improper gender address are a of Gurgaon, India. Founded by Sarvesh Agrawal, an IIT Madras big NO - they feel like a piece of stone under your teeth while alumnus, in 2010, the website helps students find internships with having a meal. However delicious the food may be, we all know organizations in India.

How to apply for an Internship:

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1. Make the subject line of your internship application stand please name your CV as your nameplate and don't just leave it as out-make it specific and relevant enough for the recruiter to be "CV.doc", "MyCV.doc" etc. - don't make it hard for the employer to intrigued to open your email. Go window dressing!

phase for all the students to grab internship opportunity to never has and it never will. 4. Spend time researching a bit about the enhance their curriculum vitae. There are various platforms to help company, or individual and their focus areas and how what you have to offer matches with their requirement. Don't go carpet bombing!

what a bad taste the experience leaves.

6. Having done everything right so far, spend 10 extra seconds and find your resume at a later date if needed.

2. Keep your cover letter simple, short and specific – don't leave it

blank and don't give your 5-page life history either. Relevance is the Winter means a long vacation and this is the correct time to do an key. Think if you were the recruiter what information you would be internship which will help to build a good resume. looking for in the cover letter to interest you to open the CV.

Woolen Textile Industry

Every season has a specific clothing pattern to suit the climatic and industrial applications in the form of technical textiles. The changes as well as the comfort of the people. In winters, woolen product range comprises of apparel fabrics, blankets, knitwear, clothing becomes the most suitable as well as trending clothing carpets, upholstery and technical textiles having varied applications. choice.

industry comprising of cotton, synthetic, silk etc., yet it has the consumers. In recent years, the industry has also expanded its privileged distinction of producing a wide range of products manufacturing capacity for ready-made apparels made out of required by the civilian population, defense forces, home furnishing worsted and woolen fabrics to extend the value addition chain.

• The wool industry offers a career opportunity for everyone — no matter what your skill or passion.

• Jobs that relate to wool production are as diverse as woolgrower to a researcher to a bank manager.

• Graphic designers, marketing executives, fashion designers and retailers all have career opportunities in the wool industry

Careers in the wool industry can be divided into two main areas - on-farm and off-farm.

On-farm: Working in the on-farm sector involves a career that supports wool production.

People who enjoy working with animals might consider one of the following careers:

- livestock manager
- veterinarian
 shearer
- woolhandler
- livestock nutritionist farm consultant
- working dog trainer livestock agent
- wool broker wool classer

Someone who is more interested in plants • bank manager • accountant might consider a career as a:

- plant breeder
- pasture agronomist
- environmental scientist
- pasture researcher.







Many careers that support the on-farm sector might not seem to be in the wool industry, but are indirectly involved:

- rural counselor rural merchandiser.

cities, both in India and overseas.

These products are made in a variety of specifications catering to The woolen textile industry is a small segment of the Indian textile both poorer sections of society as well as affluent and sophisticated

> People who are creative could find the perfect career in:

- graphic design fashion design
- advertising
- rural journalism.

Many more people are employed in the wool industry in:

 research and development
 science communication

- wool buying and processing
 retailing
- sales and marketing.
- The opportunities are endless!

Indian wool industry provides The thousands of jobs both in the country and overseas. No matter where your interests lie, the wool industry has a career path suited to you. Ranging from people of arts faculty to science and commerce, woolen textile industry can provide a successful career to all of them. It is an industry that is at its peak during winters but also popular

during other seasons. A career in this industry will give you stability and help you pour out your creativity.

These were some of the interesting careers Off-farm: There is a wide range of jobs that of winter. So make your winter season support the wool industry based in large fruitful and productive with these career branches.



DEFIND GHESCENES

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Ruia is a second home to so many of its students. It has been a hub for nurturing talent and at the same time, giving a sense of family. Speaking of the talents that our college houses, one such remarkable team is the dramatics department or more famously known as 'Ruia Natyavalay'. Their plays are so emotionally moving, the audience gets goosebumps everytime. Their flawless acting and awe-inspiring scripts are something that all students in the college have loved and respected. Ruia Natyavalay has been a part of our college's culture since the very beginning of Ruia and is an inherent part of it's legend. Whenever a student speaks about the college's dramatics department, it is always followed by the words 'their plays are a must watch'. The department comes with its own list of laurels and awards, adding to the college's pride. It has also produced some of the finest actors in the Marathi acting industry. Dilip Prabhavalkar, Spruha Joshi, Isha Koppikar and Kranti Redkar are just a few of the gems produced by Ruia Natyavalay. With many awards and achievements in their bag, Ruia Natyavalay lives up to its name with their latest achievement: they bagged the first place in INT 2018. We all know about Ruia Natyavalay, but only from the audience's perspective. Not a lot of people actually know what really happens behind those curtains, what preparation everyone goes through and who all are responsible for the stunning performances. In this article, we explore all these questions.





रुईया महाविद्यालयाची एकादशावतार ही एकांकिका या वर्षी एकांकिका स्पर्धांमध्ये अक्षरश: गाजते आहे. INT मध्ये प्रथम येण्याचा मान पटकवण्याबरोबरच

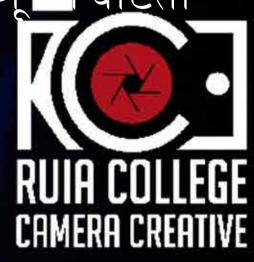
अभिनय , लेखन , दिंग्दर्शन , संगीत , नेपथ्य यासाठी अनेक पारितोषिकं तिने मिळवली. उत्तुंग , कोकण चषक , मृणालताई करंडक या सारख्या अनेक स्पर्धांमध्ये एकादशावतारने प्रेक्षक आणि परीक्षकांवर आपली ठसठशीत छाप पाडली. तर या लेखाच्या निमित्ताने जाणून घेऊया या एकांकिकेच्या पडद्यामागच्या अवताराबाबत.



रुईयामधल्या रामचंद्र गावकरकडे संकल्पना होती, "एका गावात जत्रा आहे, त्यात दशावतार नाटक येतं आणि विष्णुचं पात्र करणारा व्यक्ती मोर्चामुळे येऊ शकत नाही, मग पुढे काय घडेल?" यासाठी आध्यात्मिक गोष्टी माहीत असलेल्या लेखकाची गरज होती. प्राजक्त देशमुख अगदी योग्य होता. "आम्ही नाशिकला त्याच्याकडे जाऊन व्यक्तिरेखा ठरवल्या आणि त्याने 5-6 दिवसांत नाटक लिहूनही दिलं. ह्या सगळ्या अभिनेत्यांमध्ये मला ती पात्र दिसू लागली एवढे ते एकरूप झाले. सगळ्यांनी स्वतःला झोकून देऊन कामं केली ", असं दिग्दर्शक रणजित पाटील सांगत होते.

"INTच्या पाहिल्या फेरीनंतर दोन दिवसांत थोडे बदल करावे लागले, तेव्हा सगळ्यांनी मेहनत घेतली आणि एकदम 'कडक' सादरीकरण केलं. मी त्यांना नेहमी म्हणतो कि स्पर्धा असणारच आहेत, नाटक चांगल होणं महत्त्वाचं. दिग्दर्शक हा फक्त मार्गदर्शन करतो, दिशा दाखवतो, पण नाटक हे नटाचंच माध्यम आहे. नाटक चांगलं झालं तर लोक नटांना भेटायला येतात आणि वाईट झालं तर दिग्दर्शक कोण आहे असं विचारतात. 10 वर्षांनी रुईया INT जिंकल्यावर माझ्यावरही जबाबदारी होती. 'कोकण चषक' स्पर्धेत प्रथम आलो, 'मृणालताई' आणि 'उत्तुंग' स्पर्धांमध्ये विदतीय आलो. या सगळ्यांनी केलेल्या मेहनतीचं चीज झालं."

नाटक बसविताना एक म्हातारयाचं पात्र डोक्यात आलं. संपूर्ण नाटकात त्याला एका ठिकाणी एकच "हम्" असा संवाद आहे. त्याला परीक्षक आणि प्रेक्षक यांचा खूप छान प्रतिसाद मिळाला. मी मूळचा कोल्हापूरचा, पण शिक्षण मुंबईत झालं. त्यामुळे दशावताराविषयी माहिती काढणं महत्त्वाचं होतं. त्यात बोलली गेलेली भाषा, हेल, वेशभूषा, अभिनयशैली हे ओढून ताणून वाटता नैसर्गिक वाटावं म्हणून नाटकातल्या प्रत्येकाने तेवढीच मेहनत घेतली आहे.



CHMERH CREHTVE

संदेश

"आपल्या सर्वांना माहीत आहे विष्णुच्या दहा अवतारांविषयी, पण त्यानंतर काय? अकरावा अवतार तुम्ही स्वतः आहात. कोणीतरी येऊन तुम्हाला मदत करेल असं म्हणून अवताराची वाट बघत बसू नका. ब्रह्मा उत्पत्ती करतो, विष्णु पालनकर्ता आहे आणि महेश लय करतो. उत्पत्ती करणारे आपण आणि नाश करणारेही आपणच.

"विष्णु वेगळा शोधायला जाऊ नका, विष्णु आपल्या स्वतः मध्येच आहे!"

नाटकाच्या वेळी बॅकस्टेजला एक वेगळं नाटक सुरू असतं. हे नाटक सेटच्या हिशोबाने तसं भव्य आहे, त्यामुळे बॅकस्टेजच्या टीमला प्रचंड मेहनत घ्यावी लागते. नाटक सुरू झाल्या सेकंदापासून पडदा पडेपर्यंत धावपळ सुरूच असते. बॅकस्टेजला काम करूनसुद्धा बरंच काही शिकायला मिळतं. सगळ्याच महत्त्वाच्या आहेत पण त्यातही 20 महत्त्वाच्या भूमिकांमधून हे नाटक उलगडत जातं. एका व्यक्तिरेखेसाठी 2-3 जणांनी फक्त ऑडिशनच नाही, तर तालीमही केली. दिग्दर्शकाने ग्रामीण ढब नीट हेरल्याने आणि लेखकाच्या लिखाणाने प्रत्येक व्यक्तिरेखा तितकीच हवीहवीशी वाटते. एखाद्या नाटकाचे बरेच प्रयोग झाल्यावर आम्ही नटांची अदलाबदल करून तालीम करतो, कारण प्रत्येकाला संपूर्ण नाटक पाठ असलंच पाहिजे, किंबहुना ते होतंच

पाठ.

कोणतीही भूमिका मनापासून केली की ती निश्चित प्रेक्षकांच्या लक्षात राहते.

युगंधर साळवी

रंगभूमी आपल्याला खूप काही देऊन जाते.

INTच्या इतिहासात रुईया 11 वेळा जिंकलंय, हे सर्वाधिक आहे, यंदाचं 12वं वर्ष आहे जिंकण्याचं.

अमेय नारकरने सलग 4 वर्षं प्रमुख भूमिका केल्यात आणि ह्यावेळी बॅकस्टेजचं काम केलं, हे फक्त थिएटरमध्येच घडू शकतं. आम्ही सगळ्या गोष्टी तेवढ्याच मजेने करतो. त्यामुळे जेव्हा एकाला पुरस्कार मिळतो, तेव्हा ते अख्ख्या टीमचं यश असतं.

INT एलिम्सच्या वेळी मला एक वाक्य कसं घ्यायचं ते समजत नव्हतं. प्रयोग करताना हवेमुळे विगचे केस चेहरयावर आले आणि ते वाक्य खूप विनोदी झालं, खूप हशा मिळाला, मग पुढे ते तसंच करत गेलो. त्यामुळे चुकून झालेलंसुद्धा कधीकधी आपसूक छान होतं.

तालीमें पूर्ण दिवस चालते पण कधीच त्रास होत नाही किंवा कंटाळा येत नाही. "मन से जो करते है, वो अच्छा लगता है"

एकदा माणूस थिएटर करायला लागला कि ते आपसूक आवडतंच जातं, नवनवीन गोष्टी शिकतो. नाटक सादर करताना बाकी काहीच विचार येत नाहीत, नाटक जगायला लागतो आपण!

त्रास होत नाही किंवा कंटाळा येत नाही.

बॅकस्टेजने खूप काही दिलं !

गेली तीन वर्ष मी नाट्यवलयात बॅकस्टेज करतोय. इथे आपलं काम प्रेक्षकांना दिसत नाही पण त्याचं मला कधीच वाईट वाटलं नाही. कारण आम्ही सगळेच नेहमी एक टीम म्हणून काम करतो. सेटवरचे खिळे ठोकणे, ते लावणे, ब्लॅकआउटमध्ये त्यात बदल करणे हे सगळं नेहमीच मला खूप रंजक वाटत आलंय. या एकंदर प्रोसेसमध्ये एकरूप झाल्यामुळे खूप काही शिकलो. मनापासून केलेल्या तालमींमुळे संबंध एकांकिका मला तोंडपाठ असते. या वर्षी पहिल्यांदाच एक भूमिका मिळाली ; थोडाफार अनुभव होता म्हणून तिला न्याय देता आला आणि पहिल्याच प्रयतात अभिनयासाठीचं पारितोषिकही मिळालं.

सुहास आलदर

सगळं श्रेय टीमचं !

मी देखील गेली तीन वर्ष बॅकस्टेज काम करायचो. एकदशावतारमध्ये प्रथमच ऑनस्टेज काम केलं आणि बक्षीसही मिळवलं. पण मला वाटतं की बक्षीस हे एका अभिनेत्याचं कधीच असू शकत नाही. कलाकाराचा मेकअप करणारा आर्टिस्ट , विंगेत त्याच्यासाठी प्रॉपर्टी घेऊन उभा असणारा , लाईटमन , म्युझिक आर्टिस्ट या सगळ्यांच्या एकत्रित मेहनतीला मिळालेली ती पावती असते. अभिनेता कितीही उत्तम असला तरीही या सगळ्यांच्या समन्वयाशिवाय अपेक्षित परिणाम त्याला साधता येत नाही.

अजिंक्य मणचेकर

बॅक टू बॅक प्रयोग एनर्जी देऊन जातात.

काही वेळा दिवसभरात दोन किंवा तीन प्रयोग होतात. पण नंतर त्याची सवय होते आणि एकांकिकेच्या प्रेमात असलेले कलाकार प्रत्येक प्रयोग त्याचा आनंद घेऊन करतात. कोणाची तब्येत बरोबर नसली तरीही नाटकात ते अजिबात जाणवत नाही. किंबहुना कलाकारालाही त्याचा विसर पडतो. आपली भूमिका चोख वठवायची असते. प्रत्येकाने पूर्ण लक्ष देऊन प्रयोग केला तर त्याचा खूप छान आणि वेगळा प्रभाव पडतो आणि तो प्रेक्षकांच्या लक्षात राहतो.

एकांकिकेत एका सीनमध्ये एका पात्राच्या हातात तांब्या असणं आवश्यक आहे. एका प्रयोगात बॅकस्टेजला थोडी गडबड झाली आणि तांब्या एका विंगेतून दुसऱ्या विंगेत पोहोचवायचा राहिला. म्हणून मग त्या पात्राच्या हातात काहीच नव्हतं आणि पुढचा संवाद हा तांब्यावर आधारित होता. त्यामुळे मग प्रसंगावधान राखून विंगेतून रंगमंचावर तांब्या चक्क फेकला गेला आणि आमच्या कलाकाराने तो झेलला. प्रेक्षकांना हा योजिलेला प्रसंग वाटला आणि या सीनला हशा-टाळ्यांची भरभरून दाद मिळाली.

जयेश वाव्हळ



एकदशावतार ही एकांकिका पेलायला तशी अवघड आहे. सेट बऱ्यापैकी मोठा आहे. त्यामुळे स्पूर्धेच्या वेळी बॅकस्टेजच्या कलाकारांवर मोठी जबाबदारी असते. सेट

लावायला ठराविकच वेळ असतो आणि एकांकिका सादर झाल्यावर तो मर्यादित वेळेत काढला गेला नाही तर परीक्षक गुण वजा करतात. एकादशावतारमध्ये नाटकात नाटक असा प्रकार असल्यामुळे हा पसारा सांभाळणं म्हणजे एक तारेवरची कसरत आहे. जो सेट लावायला पंधरा मिनिटं लागतात तो कधीकधी पंधरा सेकंदातही आऊट करावा लागतो. या धावपळीत बऱ्याचदा कलाकारांना दुखापत होण्याची शक्यता जास्त असते. अशाप्रकारे पडदा उघडल्यापासून तो पडेपर्यंत आणि त्याच्या आधी आणि नंतरही बॅकस्टेज अतिशय हॅपनिंग असतो. एकदशावतार या एकांकिकेत जवळपास पन्नास कलाकार आहेत. त्यातले वीस अगदी प्रमुख कलाकार आहेत. त्यांना संवाद आहेत. प्रत्येक पात्राला स्वतःची अशी वेगळी लकब आहे. प्रत्येकाची खासियत वेगळी असल्यामुळे पात्र आपल्या लक्षात राहतात.

नाट्यवलायची खासियत

र्रुईयाच्या नाट्यवलयात स्पर्धा जवळ आली की सकाळी सातपासून रात्री दहा वाजेपर्यंत तालमी चालतात.आपलं तन , मन , धन लावून सराव करणारी ही मंडळी म्हणतात -

"दिवसभर आम्ही तालमी करतो. ती एकांकिका मनापासून जगतो. त्यातल्या भूमिका आम्हाला जीवंत वाटू लागतात आणि त्या नकळत कुठेतरी भेटतातही. या सबंध प्रोसेसमध्ये प्रत्येक बारीकसारीक गोष्टीचा बारकाईने विचार केला जातो. सहकलाकारांशी छान बॉडिंग तयार होतं. इथे एकमेकांच्या डब्यांबरोबरच सुखदुःखही शेअर होतात. ऑडिटोरियम आमचं घर होऊन जातं. कारण घरापेक्षाही जास्त वेळ आम्ही इथेच घालवतो ! फावल्या वेळात कधी थोडी झोप काढली जाते तर काही वेळेस गप्पा रंगतात. यापैकी अनेकजण कल्याण , पनवेल , विरार अशा ठिकाणी राहत असून दररोजचा लोकल ट्रेनचा प्रवास करतात. एकांकिकेचं जग आम्हाला आपलं वाटतं आणि तिथे आम्ही आपोआपच ओढले जातो."

शैक्षणिक वर्षाच्या सुरुवातीला नाट्यवलयकडून ऑडिशन्स घेतल्या जातात. यातून नवोदित कलाकारांची निवड केली जाते. एकादशावतारचं कास्टिंग हे बरचसं ऑडिशन घेताघेताच झालं. मुलांमध्ये आम्हाला एकांकिकेतली पात्र दिसू लागली , असं दिग्दर्शकाने सांगितलं. ही एकांकिका एका गावात घडत असल्यामुळे प्रामीण बोली अवगत असलेल्या मुलांच्या आम्ही शोधात होतो. कास्टिंग बरोबर जमल्यामुळे पुढचं काम खूप सोपं झालं. सुरुवातीला गोलात बसून संवादांवर स्पीच वर्क करायचो. पाया पक्का झाल्यावर मग स्टॅडिंग रिहर्सल्स सुरू केल्या. तालमी करता करता अनेक नवनवीन कल्पना सुचत गेल्या आणि एकांकिका बहरत गेली. प्रत्येक प्रयोग वेगळा होतो. रिपीट ऑडियन्सला दरवेळी काहीतरी नवीन देण्याचा आमचा प्रयत्न असतो. आता सवाई हे एकादशावतारसाठीचं लक्ष्य आहे.

Ask any stage actor and they would tell you the importance of being a part of the right theatre group. To these young budding actors, Natyavalay is more than just a theatre group......It's a family that has taught them to grow as actors. Natyavalay is what gave them the courage to dream and go towards that dream. These youngsters set such a great example about the importance of overcoming hardships and believing in your passion. Hearing them share their stories of their personal dreams and how they made Natyavalay what it is to this day makes it clear about how much they contribute to it and learn from it. For them, Natyavalay has been instrumental in harnessing the power of young talent to nurture their common passion for acting and making use of their abilities to the fullest. More than anything else, they taught us one thing: that everyone has a role to play, and it's a monumental role, big and small does not matter, like gears in a clockwork, working together. So we should all do our parts and respect the stage. With great achievements under their names and several more to go, they look together at the future with bright eyes and a fresh outlook.

INSIGHT

TICK-TOCK, TICK-TICK

What is time? The hour hand on a clock, the sand in a glass or something more than that? How does it run away? Or sometimes, just pauses. Yes, as the new year is here, it is time to talk about time itself!



you places, which is without a checklist of as soon as it becomes the present, that the evening, which does not lie in fear of the past. There is nothing more human truly fear death; humans bear the fear of away from the rapids ahead and to still time running out instead.

It is perhaps human nature to feel since slipped away while the other eye oppressed by the relentless tries to catch a glimpse of the passage of time. It started with the ever-arriving horizon, the other hand fascination of our ancestors who reaching forward to grip onto something tracked the movement of the sun, recognizable, leaving no room to grab bleeding into the obsession of the what he has now. He longs to shed the modern man frantically checking his dragging past and tighten his hold on It starts with a jolt of realisation that watch every few minutes. It is quite the reigns of the future that always he is before things that ought to be done by seven in he only laments as soon as it becomes the regrets that might come with the than the desire to anchor oneself against inevitable end. Thus, it is animals who the current of time, to wish to remain feel the conformity of being stuck in the current time, the count of every moment The weight of this knowledge, that life is passing by, every second that has so much shorter against the backdrop of slipped; or, as the clock helpfully



brings your blissfully ignorant routine to strange for him to picture the life of an seems to arrive a lurching pause, as if shaken by the animal which is never late or early to prepared—that he always loses track of, itself, making universe entranced and simultaneously unsettled—a sudden awareness of the vastness of time and space and thus, the stillness of your being in the midst of it—a semblance of infinity trapped in a moment. It forces you to feel the length of each second that passes, lifelines encompassed in the ticking of the clock and the count of your pulse, the weight of each heartbeat that still exists.

infinity dawns on him and he trains one provides you with the-tick, tick, tick. eye on the fading scenery, one hand reaching out for that which has long

-Anushka Nagarmath (FYBA)

The Please

Ever wondered how Lucy, Peter, Susan, and Edward just pass through that door as kids, grow into their youth fighting the White Witch and rule the Kingdom of Narnia, and then return to their real world as kids? As if nothing just happened! Like, time really paused! Is that really possible?

Time isn't the same all over the surface of the Earth. It has a peculiar relationship with the gravitational force. This difference between time at the same moment at different places is nothing but time dilation which is the difference in the elapsed time measured by two observers, either due to a velocity difference relative to each other or by being differently situated relative to a gravitational field. Too much physics, eh? Well, here are a few bizarre theories about the phenomenon of time, that might make you doubt that ticking clock on the wall.

Tik Tik 1- Higher the distance from earth, faster will the time run. The closer you are to the earth, the greater the gravitational force is which slows down the time.





Tik Tik 3- Time is a relative concept.

Each individual's 'time' is personal and different according to Einstein's theory. No doubt, a minute seems like 10 minutes at times, while that minute passes by in a blink on other occasions. Neuroscientist Warren Neck says that this happens because there isn't a single 'brain clock', rather there are multiple brain clocks, all running at different speeds.

fast you move!

Scientists used two atomic clocks (most accurate clocks created by science) to test this theory set down by Einstein. They sent clock 1 on a plane ride around the world, while the other clock stayed back. The clocks were perfectly synchronized at first, but the traveling clock came back from its 50 hours, 800-kilometer trip, missing 230 or so nanoseconds.

Tik Tik 4- Light-Speed particles might help time travel research.

Scientists have discovered subatomic particles known as neutrinos that can maybe, possibly, potentially travel faster than the speed of light. If this proves to be true, there is a slight possibility that time travel may be possible. Right now there is a lot of cross verification doing the rounds about this new discovery, so till that settles down, let's hope Flash gets to full-speed soon.

Bonus! *Tik Tik 5- Time stops in the periphery of a Black Hole. Remember gravity? Statue!*

-Sara Chavan (SYBA)

THE CAGE OF TIME

theory

what

the consequences of altering time at our be thus stuck in a time loop. every whim.

Science fiction has thoroughly explored composability, however, the concept of time travel starting with H. happen in time travel is limited to what G. Wells' "The Time Machine" and did happen. In order to prevent logical continuing up to modern movies and contradictions, the time traveler's actions books like Passenger or Deadpool 2. are limited. The past cannot be changed. While the above-mentioned pieces of fiction contain extensive and seemingly The Novikov self-consistency principle unlimited travel both into the past and to states that any actions taken by a time traveler or by an object that travels back the future; reality is not so malleable.

Time travel firmly remains a fixture of and therefore it is impossible for the time science fiction and for good reason, too. traveler to "change" history in any way. If every Tom and Joe could move back The time traveler's actions may be the and forth in time the consequences could cause of events in their own past though, be devastating. which leads to the potential for circular sometimes called causation, discussed predestination paradox, ontological commonly The most consequence is the grandfather paradox. paradox, or bootstrap paradox.

According

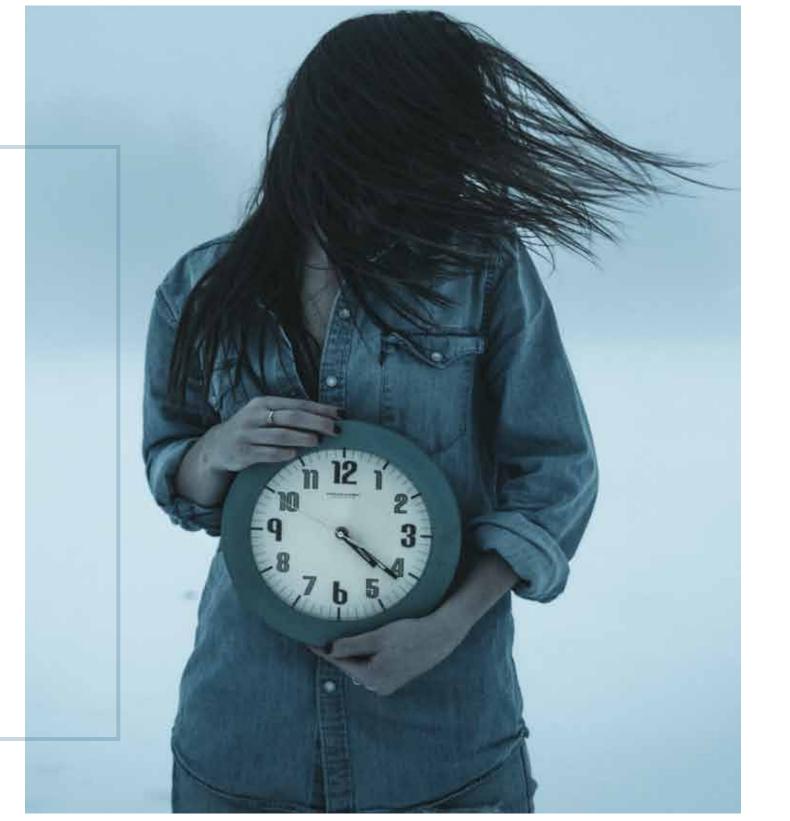
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in time were part of the history all along,

At least once in our lives, we've all sat cause your grandfather's demise—the Thus, coming back to reality: One could down, knees cradled in our arms- against major plot line in the "Terminator" movies theoretically travel at the speed of light our chest and wished for the ability to - before he could have children, then or stand on a neutron star in order to turn back time. After a dreadful exam, you wouldn't have been born in the first experience time dilation and reach a after spitefully shouting curses at your place. Hence, you would never be able to future, though not his. But the past loved ones, after being too late for cause his death and he would survive, remains out of reach. Perhaps, we must something important. What we may not which would lead to you going back in take it as an omen. The past is the past have stopped to consider, however, are time and causing his demise. You would and there is nothing to be done that can alter it. So, instead of crying bitter tears and building air castles, we must try of ceaselessly to craft the future we desire can instead.

-Lakshmi Kalarikkal (FYJC)



If you go back in time and somehow

"Time and tide wait for no man." Wise words said by the wise bard.

Time is money.

How distance is measured in our busy tinsel town. How time is valued, monetarily.

Time-bound

We are time-bound in this life. Time ends with death. But perhaps as Jainism philosophy says that it is us, we-mortals, Who has seen time? who are time-bound, divide time. Time Where is time? which has a start, which has an end. But What is time? it is we who have a start, have an end, Inquires the poet, time is continuous. It is we that exist in Javed Akhtar in "Waqt"; time, for some time. It is not time that is spent, but we.

Time-less

Ah, but only we can be timeless, through Kahin toh hoga, something else. There is no plus, no Guzar gaya hai, minus in time. An attribute of us, not for *Toh ab kaha hai...* time.

Tense

Tenses, the verbs of time. Past, Present, Future. Simple, Continuous or Perfect. Never enough to time time.

Ye waqt kya hai, Yeh jab na guzra tha, Tab kaha tha,

Kal kisne dekha hai? Kya yeh keh, shaayad pooch, rahe hai waqt kisne dekha hai?

With that said, did we ever describe time, not in relation to us? Then, what is time as time? That which is, not passes, is continuous, but just IS.

-Tanvi Padia (SYBA)

People and the fast moving trains

Every morning as you rush to catch a train while munching on your half-eaten breakfast, you learn a lot more than the fact that Thane trains won't take you to CST. The chutney green colored bogies bring a daily dose of fervor into our monotonous lives. Trains taught me that a simple sorry can bring smiles and end serious consequences and a single tiffin box can fill the belly of many. From gossiping about Deepika Padukone's wedding lehenga to sympathizing with a stranger whose weeping eyes remind you of your own hard times- trains are like eternal observants who have seen the youth dying, the old gleaming as well as the rich sobbing and the poor rejoicing. Maybe life is not as hard as getting the window seat but as simple as asking for a fourth seat. Trains not only take you to your destination but emancipate you from all the bonds that scare you before you reach your destined station. It unintentionally makes you feel one among many, hence establishes a bond between you and the city. Many people debate over what makes Mumbai this welcoming and united. In my opinion, it is the Mumbai local that has always brought this vast city together by connecting the diverse suburbs and varied people and built it into this gigantic city of which we are proud residents today.

- Disha Shanbag





A letter to the window seat

Dear Window Seat,

You are one of the most prized things in all of Mumbai during the morning peak hours. Hundreds of people fight for you every morning but only the ones with the nimblest of feet are blessed with the luck and the honor.

Today morning I got a window seat. The best one, with the winds caressing my face instead of making a nest of my hair. I knew that my day was going to be just fine.

I watch a fishnet on my arm that the morning sun draws while streaming in through the window and I'm lost. The way my skin turns gold under the light is more fascinating than any gossip that the aunties sitting across from me enjoy over a packet of salted peanuts. The train takes me to the college but the windows, they take me away from the drab reality.

I have memorized all of the buildings that line the railway tracks. It's like the entire world is one big zoetrope and it's putting on a show for me. I have some special songs ready for when I get a window seat. Coldplay to Kodaline, Adele to Arijit Singh to Prateek Kuhad- everyone comes closer to me. My music is more magical in your company.

Thanks for making my hectic commute a hundred times more pleasant. I'd write a million letters if I could but I think this one will do for now. Thank you!

Yours truly, A girl on the train.

- Shabduli Shinde



त्या दोघी एकाच वेळी निघायच्या रोज. फक्त पहिलीला जायची काही घाई नसायची तर दूसरीला मात्र आराम माहीतच नव्हता. पहिली मैत्रीण जरा मोठी वाटायची, काहीशी थकलेली, खूप वर्ष काम केल्यासारखी पण तरीहीँ उत्साह कमी नव्हता तिचा. दुसरी मात्र एकदम फ्रेश वाटायची, आताच तारुण्यात प्रवेश केल्यासारखी. त्यांच्याकडे पाहन असं वाटायचं कि दूसरी म्हणजे नवी नवरी आहे आणि पहिली म्हणजे खूप वर्ष लग्न करून आता सगळ्याला सरावलेली! कधी वाटायचं दूसरी काही दिवसांनी पहिलीची जागा घेईल.

खूप वेळा पहिलीला दुसरी मुळे सापत्नपणाची वागणूक मिळायची. दोघी जर एखाद्या ठिकाणी एकत्र गेल्या तर दुसरीला आधी जाऊ देत आणि मग पहिलीला कारण दुसरीचं महत्त्व जास्त असायचं ना !!!

पाऊस पडायला लागला ना कि पहिली मला वाफाळलेल्या चहा सारखी वाटायची. चहा जसा खूप वेळ गरम पाणी पोटात घेतो, मग कुठे त्यात चहा पावडर विरघळते, साखर रमते आणि मग वरून बरसलेला द्धाचा पाऊस त्या चहाला पूर्णत्व देतो, ही तशीच होती. एवढी वर्ष खूप काही गोष्टी सहन करून पोटात ठेवून सगळ्यांना गुंतवत ओणि स्वतः साऱ्यांमध्ये विरघळत ती आयुष्याचं रिंगण पूर्ण करत होती. याउलट होती दूसरी. खरं सांगायचं तर हवीहवीशी वाटणारी. अर्थात ती जितकी गोड दिसायची तितकीच नखरेलसुद्धा होती.

दोघी त्यांच्या जागी योग्य होत्या पण त्याचं नातं काय हे मात्र मला कळालं नाही. दोघी एकाच ठिकाणी राहायच्या, एकत्र निघायच्या, एकाच ठिकाणी पोहोचायच्या पण त्या एकमेकींच्या बहिणी आहेत कि मैत्रिणी आहेत कि त्यांचं नातं सासू सुनेचं आहे, नणंद भावजयीचं आहे कि अजून काही याचा शोध मात्र मला अजून लावता आला नाही. त्या एकमेकींशी कधी बोलल्यों नाहीत, बोलणं तर दूरच, भेटल्या पण नाही !!!

ज्याला ती पहिली आवडली असती त्याला दुसरी मिळाली नसती, कधीच! कारण एकाच वेळेला आपण दोन ट्रेन मधून तर प्रवास नाही करू शकत ना ! पहिली कल्याण वरून सुटणारी 7.57 ची छशीमट स्लो होती तर दुसरी तिथूनच सुटणारी 7.57 ची छशीमट फास्ट‼

- Mrunal Saple



often stifling for some and a miracle for others. This pace is one. aptly personified by what is regarded widely as the lifeline of the city-The Mumbai Locals.

Amidst the chaos, at last, going home after a long day, she finds herself sitting still by the window. A new song starts blasting in her earplugs which is in complete sync with the view and the mood. She can't help but act like she's in a music video, with her face mirroring the emotions from the song.

We're in the city of dreams, the city of movies; the birthplace of travel time without getting bored. Some utilize the free time Bollywood melodies, we're in Mumbai. Mumbai is evidently while traveling on the train for reading, writing, chatting or unique, mostly due to the pace of life it offers, a pace that is watching videos, but I think listening to music is the most loved

> One thing is that listening to music just makes traveling smooth. Music once admitted to the soul, becomes a sort of spirit, and never dies. It's heartbreaking when one accidentally forgets to carry earphones while traveling. Music is like a

> painting on silence. And my painting looks exactly like the city of dreams, the city of Mumbai.

- Mithila Kudalkar

Most of us have been in that place and more often than not, enjoyed every bit of it. Trains always demand us to spend the

WHEN TRAINS BECOME MORE THAN THE JOURNEY.

The "Spirit Of Mumbai" is known from rural Maharashtra, many of them directly to the accounts of people and nationwide and SO is strumming young bov cancer patients.

place in Dombivli. It is on these routes 2014, Saurabh lost his mother. donation box.

mother, and their families, had come in Thane, which transfers the money

the hospital and play for the patients evening. Having spent a lot of time in the cancer and lighten the atmosphere. That was Such people, who, instead there, his heart made the decision of even joined him and sang along. So, he the ones we need to look up to. helping patients through charity. His thought of continuing to do the same - Lekshmi Prakash office is located in Ambernath - he thing, just this time, he would ask travels from Ambernath to Dadar, and people for money to help out cancer Now go hurry, get your window seat,

that he plays his guitar to collect funds, Today, Saurabh manages to collect time traveling. four times a week and belts out about a thousand rupees during every popular Bollywood numbers for an trip. And while he receives mixed appreciative audience that usually reactions from his audience in the drops some money generously in his trains, he is never demotivated. Some criticize him for collecting funds like Staying with his mother at KEM for this, while others appreciate his months, Saurabh noticed that most of efforts. All his collections go to a small the patients admitted along with his NGO called Bright Future Association

our were from low-income backgrounds not to the hospital accounts. He plans ever-ready-to-help attitude, and this and had left their jobs to accompany to continue his mission, helping cancer famous relatives for a treatment that is patients in the best way he can. His Bollywood numbers on his guitar is the extremely costly. Saurabh was in his family supports him in his initiative and perfect example of how one's simple second year of college at the time and is very proud of him. Many act of kindness affects other people's used to also play his guitar on trains personalities have accoladed Saurabh lives. This young man, Saurabh while commuting to college from for his efforts with Mr. Amitabh Nimbkar, is using music for a mission Dombivli to Matunga. Throughout the Bachchan giving him a surprise by to collect funds for the treatment of treatment, he would carry his guitar to visiting his train to encourage him one

of ward of a hospital in Mumbai when his just for fun. People loved to hear him complaining about the crowd, take mother was undergoing treatment play after a long day at work. Some advantage of it to help the society are

from there he takes a train back to his patients. Unfortunately, in September plug into some music and enjoy your journey. OpEd wishes you a happy

OPEN FORUM

Urbana on the Move

-Aditya Negi

If you're reading this, odds are that you're a denizen of the big, bold, and beautiful Mumbai Metropolitan Region. You're also conscious that you share each square kilometer of space with about 5000 other Indians – that, or you believe I'm throwing out a conservative estimate. As India's richest urban center, the MMR commands a citizenry numbering twenty million plus. And as India continues to urbanize, expect that number to balloon further.

But surprisingly enough, it doesn't even make the list of the "top ten most populated urban areas". Greater Tokyo, a legacy of the postwar Japanese economic boom, is home to 37 million people. And all the other cities on the list are Asian, from Shanghai to Manila to Seoul to Delhi, underscoring the rise of Asia in both economic and political power in the late-twentieth century. This article will examine the most important cities from ancient times right up to the Second World War.

1. Ancient World (Antiquity to 2000 BC): URUK

The first stone towers and walls rose around 7000 BC in West Asia. Though there are many cities of note even this far back - Beidha in Jordan, Tell Brak in Syria, Mohenjo-daro in modern-day Pakistan - by far the most prominent settlement was the Sumerian city of Uruk in south Mesopotamia, now Iraq.

The story of Uruk's rise (circa 4000 BC) is a simple one: it was located in a fabulously fertile region near the Euphrates river. If you want a lot of people in a relatively small area, you better make sure you have enough food to feed them. Uruk checked that box, and soon enough other occupations rose - traders, craftsmen, scribes. Eventually, it grew large enough to have its own army and bureaucracy, and it was sending colonists and traders to control the surrounding areas.

Uruk hosted a population of 75,000 at its peak. It went into decline around 150 BC and by 700 AD it was completely abandoned. Today, this once-mighty city is of purely historical interest.





2. Pax Romana (2000 BC to AD 400): ROME

The urban centers that rose in this era were large even by today's standards – Babylon, Alexandria, Pataliputra, Carthage and Chang'an would all be classified as Tier 1 cities in India today. But the largest of all was Ancient Rome, whose population peaked at a million people. No city in the West would ever be as populated till the nineteenth century. Rome could sustain such an enormous population in part because it was the center of the mighty Roman Empire. It imported hundreds of thousands of tons of grains, wine, and olive oil from all over the world. Of course, their own agricultural technology was very advanced as well. People lived in apartment buildings which could be several stories high. Naturally, overcrowding was common and disease was rampant.

Of course, eventually the Roman Empire fell. Without the resources needed to sustain it, Rome began to decay; by AD 537, it had merely 30,000 inhabitants. Of course, Rome was eventually reborn as the center of the Catholic Church, and it's one of the world's great cities even today.

3."Dark Ages" to Renaissance (AD 400 to 1300): BAGHDAD

After the fall of the Western Roman Empire, new regional powers rose in Asia - in particular, Islam. At its center was the Arabian Nights city of Baghdad. Home to the House of Wisdom, where scholars convened and the Barmaks embarked on a grand translation project. "This free exchange of ideas is probably what led to the population explosion, as traders from around the known world came to the city and exchanged farming techniques." The agricultural methods pioneered during this Islamic Golden Age are still used today.





4.China's Cities (1000-1800): BEIJING

For much of the previous millennium, China led the world in wealth, technology, and population. The centers of population of the Middle Kingdom were the cities of Chang'an Hangzhou, and most prominently Beijing. In the mid-1400s, the Jingtong warehouses were constructed to feed Beijing's growing population - surprise, surprise, they only led to an increase in the population. Beijing was the most populous city in the world until London outpaced it in 1825.

5. Post-Industrial Revolution (1800-1945): LONDON

London became the world's biggest city in 1825 - but it looked very different from the images of paradise we have in mind today. London didn't have its own police force till 1829! Crime was rampant, poverty was ubiquitous, and most lived in slums.

What drove the population growth in London was not increased agriculture but migration, increased fertility, and better healthcare practices. The Industrial Revolution certainly didn't hurt either. London's population, at 1 million at the start of the nineteenth century, exploded to 7 million by the turn of the twentieth.

London was eventually outpaced by New York City in the early twentieth century, and both were left in the dust by the rise of modern Asian megacities. Today the world's largest metropolitan regions support tens of millions of people – as we can all bear testimony too!



Over the Moon

astonishment, I excitedly announced my the moon revolves around the earth. And into the deep blue sea. in the car because it was supposed to go it.

moon was going along with our car. the stars for company.

When my dad taught me about the the mountains for the first time. I but the moon was still there, still walking

I was five when I first realized that the when the time was right. Till then, I had it moved across the sky towards the sea. I fell asleep that night gazing at the

Rubbing tired eyes wide with I was ten when I understood clearly how moon and rose when it was about to dip

new finding to the whole car. Peeking out that was why I realized, it would I was 20 when I realized for the first time from between the clouds, the white ball disappear some nights and make me how apt the poets, the singers were soon mesmerized me enough to have me long to see it. My love for the moon when they said that the moon appears sitting on the rooftop every night, hadn't waned. In fact, I began to love the just a little bigger, just a little brighter. watching and wondering how exactly I nights when the moon was nowhere to when you fall in love. The moon did could reach there. The first night of the be seen, as that meant more excitement indeed seem bigger, the cold winter new moon, I searched for it for hours, when it finally appeared again. I loved evening a little sweeter, and the stars even asked my dad to take me for a drive even the crescent moon, the perfect C of twinkled as if they all knew my secret, knew my feelings for the boy I was along with us. It couldn't just vanish. I was 15 when I saw the moon rise out of talking to. I walked home that evening

phases of the moon, the waxing, and the witnessed the commencement of its along with me. waning, I was somewhat consoled that it journey from between the two wasn't gone forever. It would come back mountains and was awed by how quickly

-Sayli Mayekar

Musically Inclined

Musical theatre is a form of theatrical response to Frozen and its soundtrack. performance that combines songs, There are so many wonderful musical spoken dialogue, acting, and dance. The shows out there, but for a novice, it could story and emotional content of a musical be confusing to decide where to begin! - humor, pathos, love, anger - are Here are some of the most popular communicated through the words, music, musicals in recent times - if you want to movement and technical aspects of the join the Broadway wagon, starting with entertainment as an integrated whole. one of these is the best way to go! Although musical theatre overlaps with Hamilton: Perhaps easily the best known other theatrical forms like opera and musical of the decade, Hamilton: An dance, it may be distinguished by the American Musical is a sung- and equal importance given to the music as rapped-through musical about the life of on the songs of pop group ABBA, musicals.

attention, this beautiful art began show tunes, and color-conscious casting ridiculous. This musical entered a second golden age. Live stage. broadcast musicals for the small screen Mamma Mia!: Mamma Mia! The Movie is a performances.) well with audiences. Even Disney's written by Catherine Johnson based on unabashedly silly and earnest things! animated musical division underwent a the 1999 musical of the same name, also resurgence with the overwhelming written by Johnson, which itself is based



compared with the dialogue, movement, American Founding Father Alexander including the title song, with additional and other elements. Since the early 20th Hamilton, with music and lyrics by music composed by ABBA member century, musical theatre stage works Lin-Manuel Miranda, inspired by the 2004 Benny Andersson. Mamma Mia is the have generally been called, simply, biography Alexander Hamilton by movie musical equivalent of a schlocky historian Ron Chernow. Incorporating horror film or a Baction movie or a stoner Somehow, when we weren't paying hip-hop, R&B, pop, soul, traditional-style comedy. It's ridiculous, but it knows it's partially garnering attention again and suddenly of non-white actors as the Founding pioneered and wildly popularized the found itself occupying the spotlight over Fathers and other historical figures, the "jukebox musical" genre, in which the last 4 years or so. With the release of musical achieved both critical acclaim pre-existing pop songs are retrofitted Into The Woods and Les Misérables, and box office success. It quickly gained into a narrative storyline. (There are also musicals reached the forefront of the notoriety for using music genres that jukebox musicals like Jersey Boys, which entertainment industry and seem to have usually stayed away from the Broadway tell a biographical story about musicians and present their songs as in-world

or even musical TV shows like Nashville 2008 jukebox musical romantic comedy Funny how it's once again okay to be and Empire have gone over exceedingly film directed by Phyllida Lloyd and unabashedly silly and earnest—or to love

-Natasha Desai, Shwetal Funde

Are you ready to face the consequences of technology?

Think about a fictional app that lets you But it turns out that instead of Besides the use of pornography, the swap your face onto anyone else's face recreating sweet movie scenes, this app app has been used for funnier purposes in the world. Just the thought of this is being used to create fake as well, such as swapping the face of excites everyone's minds as you could non-consensual porn of celebrities. All Nicholas Cage other with

take your favorite movie scenes and you need for this is a fast computer and celebrities. While some people even just place your face onto them and live no sense of empathy and the best place pushed the ethical boundaries a step the dream of being a star. Well, it seems to find such people was Reddit, and further by morphing their faces over like the future has arrived a lot quicker that's where it all started. An other people's faces in a live stream than one could imagine and we already anonymous user by the name thereby posing themselves to be a have this app available to the normal DeepFakes, started a subreddit completely different person. public which can be used to produce releasing the 2.6 gigabytes of code to However, all these incidents aside, this backyard.



Hollywood grade CGI within days on a the general public and that spread like software poses some real threats to spare laptop lying around in the wildfire and obviously the first use that people's privacy. As everyone draws people could think for the app was to the moral line of what's acceptable just create celebrity porn! slightly below what they're actually The working of the software is quite doing, this leads to such a situation simple, you just need a few 100 pictures where you can no longer trust a video of the two subjects (the more the of someone unless you also trust its better) in different expressions, or you source. So for instance, if you want to could just pick up a video clip and the create a certain alleged Donald Trump app would do the extraction for you. tape then all you need is a body double, Once the neural network has finished a few days of computer time and no learning the facial features of the conscience. But it could be used to do subjects, it would then begin some serious damage as well because "dreaming" what the people would look someone could just write a script to pull like in poses it has never seen before. out selfies from Instagram accounts

and train up an algorithm to create legal action can be taken against the compared to the emotional trauma plausible fake porn as if from a hidden creator of the videos because these that they would have to go through. All or hacked webcam and then send out fake videos could be defended as this begs just one question, 'Are we as blackmail threats anonymously and parodies and the first amendment humans really ready for all the even if only a few people fall for it that would protect them. The best the technological advancements that are could still be enough to cause victim could do is file for a defamation happening around us in the world emotional trauma to a huge number of case and even if they win it, the today?' -Rishabh Vishwakarma people and the worst part is that no punishment would nothing be

Do You Really Own All The Tech You Have?

We live in the age of machines. writing numerous lines of codes for the user agreement completely shows

Machines that have made our life each task to writing code so that the nothing but ignorance of the user easier and are continuing to do so day machines learn to accept and do new while accepting them the consumer by day. We have come to a point tasks. It has been quite the journey. As actually affirms to the fact that they where machines have started to learn a consumer, we have definitely don't own all the tech they have just by themselves and are becoming more benefited from all these bought. Yes, the hardware of the tech efficient in every way possible. The era advancements. We have also grown can completely be the consumer's of SMART-machines if one would like way too dependent on technology property but the software is not. to say it out loud. Everything around and these days most of the Companies have set up their devices in us is becoming smarter: our phones, manufacturers take advantage of this such a way that you will always rely on televisions, cars even refrigerators and situation of the consumer. them in some way or the other. For washing machines. The key behind Whenever you buy a tech product and example, if you own an Apple iPhone

has happened in the past that Apple been seen that when farmers in we do. Still, there is a silver lining to has locked all the devices with local Nebraska championed a right to repair this dark cloud. There are a number of display repairs after a software update law, all the big tech companies like federations working in our favor, who and consumers were forced to get it Apple came together and the result have had legal victories on behalf of fixed by visiting an Apple store. was is in their favor. It is actually consumers. Another example of such enforced frustrating to know how tech There is still a long way to go to repair technical trickery is that some Hewlett companies abuse their licensing using third parties and trusting in all of Packard (HP) printers have stopped agreements about customization and our devices. But a day is expected to working when consumers tried to print repairs to the point where they can come when the consumer will be the with an ink cartridge which was not add all the apps you want but also real king of the hill. manufactured by HP themselves. charge you more money for it or they Two of the leading tractor making can actually force you to throw a companies in the US namely John completely fixable device just because Deere and Case have developed they want you to. These companies tractors that come with software can also hide how their products are licensing. In one instance it was found actually dangerous to us. A few years that a Case tractor sounded an alarm ago Volkswagen had actually tried to every 10 minutes and the consumer hide their cars' deadly emissions by couldn't get it fixed for about a year tweaking their software that couldn't because of the software licensing on it. government regulators Another known example of misuse of access. This actually resulted in 59 software licensing is that Keurig coffee premature deaths in the US alone. makers shut down themselves if one It is a reality that tech manufacturers tries to use any other coffee pods than want us to live in a world where they the ones made by Keurig. It has also have more access to our devices than

making technology smart is in start it while booting it up you always and you somehow break your screen, inducing a tremendous amount of accept a bunch of user agreements it is mandatory for you to get it fixed well-functioning software in it. that most of the people don't even like from a nearby Apple store instead of a Software has come a long way, from to read completely. While not reading local screen repairing shop. Because it

-Suvin Mayekar

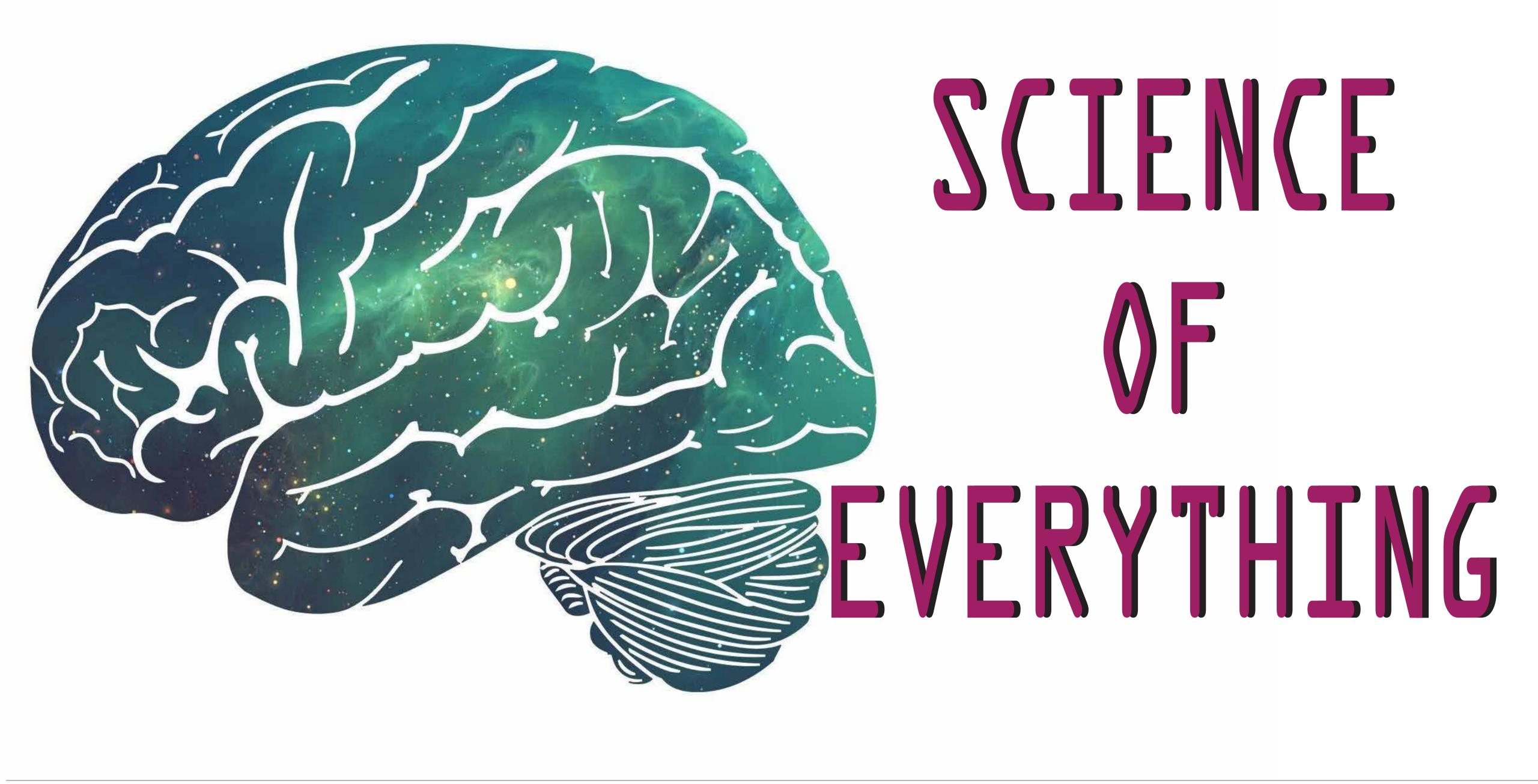


Organoids

For a long time, researchers have been technologies and organoids could be treatments for specific cell types for fascinated by understanding the hope for understanding the basic diseases related to psychiatric illness, mysteries of the human brain. This activities in the human brain to the the molecular target for new drugs knowledge about the brain has causes of numerous brain-related and to dive into abnormalities involved significantly improved in the last diseases. century. Although, unraveling deeper Paola Arlotta, Professor of Stem Cell from scientists may get to know cells mysteries about the functioning of the and Regenerative Biology at Harvard inside the brain getting affected by human brain is still a big challenge. University believes that organoids will genetic modifications and could be Recently, scientists working on the pave the way for answering questions able to build a fairly accurate model of technology involved in stem cells and like things that are wrong inside the neurological diseases. organoid research have made it brain in the context of psychiatric While developing organoids, highly slightly possible to understand more illness. She hopes that researches in advanced about the human brain and related this field will allow us to solve microtechnology from engineers will diseases. Organoids are culture problems related to human be crucial to achieving robust and models which enable many stem cells neurological diseases like autism, reproducible organoid cultures, which structural, bipolar disorder, and schizophrenia in is an insurmountable challenge now. maintain key to functional a completely new way. Currently, Improvements developmental and similarities to that of organs. One of Paola Arlotta along with Jeff Lichtman technology and related tools will help the features of these organoids is that is working on this research and trying the development of organoids. An they are developed in vitro, that is, in a to model neural connections by taking engineering-based test tube or any medium outside a high-resolution images of thin brain compounded with the advances in living organism. This means that these slices. Lichtman says, "If getting to a research will be imperative for success researches would probably have full understanding of the brain is a inturning organoid hype into hope for far-reaching implications than the mile, we have walked at least six resolving neurological diseases. previous in vivo models, implying that inches." Their research would address successful researches in stem cell many questions: developing

and biomaterials in bioreactor methodology

-Smeet Poladia



A very happy new year folks! This new year we have decided to treat you all with some very positive discoveries! Because Science is all about making life easy ! Read on to find out more about it !

Alzheimer's Blood Test

Alzheimer's disease is one of the most of people worldwide. One of the Alzheimer's patients decades before dreaded and mysterious diseases of hallmarks of Alzheimer's disease is an there's any outward signs of the modern times. For the most part, abnormal buildup of a protein called disease. Typically, it takes a brain scan

clinical trials in Alzheimer's disease have amyloid-beta in the brain. Amyloid-beta or spinal tap to discover these A-beta drug after failed drug. One of the major individuals with Alzheimer's, the protein evidence is growing that A-beta levels issues that hamper Alzheimer's is folded incorrectly and accumulates in in the blood can be used to predict research is that the disease is always the form of plaques. In its misfolded, whether or not a person has these brain caught at a relatively late stage. This is sheet-like form, it is toxic to nerve cells. plaques. The researchers used mass

because symptoms develop slowly over a number of years; they become obvious long after the condition has made changes in the brain. Scientists in Japan and Australia have developed a blood test that can identify people who have high levels of a protein associated with Alzheimer's disease. This long-sought test could help in the



been woefully disappointing—failed is present in the healthy brain, but, in clumps, or plaques, in the brain. But spectrometry, more а sensitive measuring technique than used in most previous tests, which allowed the detection of smaller amounts of the protein. And instead of looking at the total level of the protein in the blood, the team calculated the ratios between different types of A-beta.

This blood test could help researchers increasingly desperate search for The test measures blood plasma levels more easily identify people who might therapies that halt the progression of of this sticky protein. This protein can be good candidates for clinical trials of dementia, which affects tens of millions start building up in the brains of early interventions.

Magician that turns Sewage into Clean Hydrogen Energy

in challenge lies Recently i.e in November bacteria species.

separating metabolism. Hence they 2018 metabolism.

organic waste, while generating clean they really are magicians of Nature.

You have flushed something valuable Purple phototrophic bacteria belong to hydrogen gas for use as fuel. Hence down the toilet. Yes! You heard it right. the biggest & most diverse group of light based biorefinery process could The typical household sewage is rich in bacteria. All of them are photosynthetic, provide a means to green energy from bioplastics, organic compounds that but unlike plants and algae, they use wastewater with zero carbon footprint. can be turned into clean energy. But the infrared light as energy source for their For a medium sized wastewater plant have the direct transformation of organic contaminants from valuable organic brown, red as well as purple colours. contaminants into hydrogen by purple compounds - the gold from trash. These bacteria have a versatile bacteria could theoretically yeild energy for 43-107 houses.

researchers at King Juan Carlos The purple phototrophic bacteria which These small purple bacteria could help University, Spain designed a biorefinery stores energy from light, when supplied us solve the problem of wastewater as process that harvest energy from with an electric current can recover near well as problem of increasing energy wastewater using a mixture of purple to 100% of carbon from any type of requirements at the same time. Hence

Precursors of An Artificial Brain!

proper functioning of organ These neurons, however cannot divide! being capable of taking over the The

systems is very much crucial for the Meaning if a neuron is lost then, it is lost function of neurons and synapses. survival of humans. One of these permanently! Research is going on to Researchers from Polytechnic systems is the, nervous system. Our find a solution for the problem. And University of Turin and RWTH Aachen nervous system is a network of nerves. finally, in the year 2018 we have got the University in Germany produced a The signals are transmitted by many beginning of that answer. _____ memristive element made from complex mechanisms. The neurons, are For years memristive cells (cells nanowires. These nanowires are made structural and containing three component circuit) from zinc oxide crystals and are ten the fundamental functional unit of our nervous system. have been ascribed the best chances of times thinner than a normal human hair.

The scientists have claimed that these could pave the way for building Further, understand how single cells wires can inherently process and even a team led by engineers at the communicate in large neuronal store information, as well as being University of California, San Diego has networks. extremely small and energy efficient. developed nanowires that can record Currently, these nanowires are used to These wires are capable of receiving the electrical activity of neurons in fine perform implants in preclinical studies. multiple signals parallelly. processors detail. The new nanowire technology They are used to treat Parkinson's that mimic the human brain. These could one day serve as a platform to disease and other neurological diseases. nanowires function similar to a screen drugs for neurological diseases Thus, the nanowires offer promising biological nerve cell, an advance that and could enable researchers to better results in the field of neurosciences.

Scientists have pinpointed a ghost particle's origins

Neutrinos are the lightest among the can travel through Because of these But recently, on July 12, 2018, scientists two dozen or so subatomic particles. mysterious properties neutrinos are released a study outlining how they They come from all directions in called as ghost particles.

tremendous number. About 100 trillion neutrinos pass through our bodies every second. Neutrinos, as name suggest are neutral in charge and thus don't show any change electric or magnetic force is applied to them. They travel approximately equal to the speed of light without any interaction from other particles. Scientists have theoretically predicted that their mass is almost zero, one millionth of the mass

of an electron; but they have never

known what could be its origin. They



In this artistic rendering, a blazar emits both neutrinos and gamma rays that could be detected by the IceCube Neutrino Observatory as well as by other telescopes on Earth and in space. IceCube/NASA

were able to pinpoint the exact source of a neutrino. The source is known to be a Blazar, the most energetic type of object in the universe. Why are astronomers so excited this bv discovery? The scientists at the IceCube Neutrino Observatory in the South Pole believe these particles can help unveil mysteries of the cosmos. The particle's ability to travel through space unscathed makes it easier for scientists to understand phenomena happening billions of light-years from Earth. Ghost particles might also help

to understand phenomena happening billions of light-years from Earth. Ghost particles might also help scientists understand secrets about our universe's past, like why matter won over anti-matter in the Big Bang. Some believe it might even change human's fundamental understanding of physics.

To reset depressed brain ??

disorder characterised by persistently Psilocybin affect two key areas of depressed mood or loss of interest in the brain: activities, causing significant 1)The amygdala - which is heavily impairment in daily life. Scientists have involved in how we process emotions shown that magic mushrooms can be such as fear and anxiety - became less used to treat depression .

group of drugs known as psychedelics. symptoms. the psychoactive properties. Psilocybin psilocybin.

In today's world, all of us are binds to a receptor in the brain for constantly under some pressure and serotonin, and that's thought to cause this might lead to a mental health many of its sensory distortions.

active. The greater the reduction, the Magic mushrooms belong to a greater the improvement in reported

The key ingredient in these ,psilocybin 2)The default mode network - a when taken , is converted in the body collaboration of different brain regions to psilocin, which is the chemical with - became more stable after taking



Do you know ??

Connection between Santa Claus and Magic mushrooms :

According to one theory, the color of Santa Claus dress is similar to those of magic mushrooms as the shamans gave out shrooms as gifts in late December, often entering homes via the roof due to deep snow.

2. Legal status

Psilocybin was seen as a hallucinogenic drug that was powering the counterculture movement of the time and hence is considered to be illegal.

3. Oregon could become the first state to legalize magic mushrooms if an initiative makes it onto the ballot for the 2020 general election.

Much more research is needed to work through this, but the initial findings suggest that these drugs may offer an opportunity to approach mental health disorders from a new angle.

SAFARNAMA



Where to live or where not to live is the question

Traveler. Wanderer. Explorer. Seeker. Lost. Mumbai. I used to take month long to come back to is in some way

Robert Frost

and shabby motel that one is spending decades, I loved every bit of it. But as a spin an oversized globe and place a the night in or is it a comfortable locked friend of mine correctly pointed out that finger to find myself a place to live or up apartment miles away that one calls one loves Mumbai not only for its settle down or throw darts at a map? their own? Can home be allocated space different sceneries but also for the open Having gotten myself in this in carpet areas and square meters? Does culture and freedom that it allows one to philosophical mess, I realized that a huge a traveler really have a place that they have. I was rather hesitant as to where part of my association with places came want to keep going to or a place they will I find this openness that I grew up with the people. I can hate a place but the permanently live in? These are some amidst. Then I went through the second people there are what really matters to questions that I ask myself again and phase where I didn't think I would want to me. Two months ago, I went to a again but who am I kidding, I am not a settle anywhere. With all my belongings volunteer camp in Pondicherry. I faintly traveler by a long shot (yet). I have taken on my back and a passport in my hand, I remember the place but the faces of one trip where I actually felt I traveled but decided that I will live my life in different people and the time I spent with them is other than that not so much. However, I locations with different people. This idea unforgettable. Hence, I could be living in don't have a bag tag which says seemed extremely exciting until realized the heart of a metropolitan city or in 'Wanderlust'. Guess who is winning at how broke one day of eating outside isolation somewhere on a beach in Tamil life?

But jokes apart, I would really like to that I would like to live in. spend a large chunk of my life going around and confronted with the question of where I difficult in the first place? The idea of heart is and my heart is with dogs, a wall would like to live I have always reached a traveling in itself means breaking the filled with books and my friends/family dead end. Till a few months ago, I monotony and going out there and trying who cheer me on. couldn't imagine living anywhere except new things. Settling down, having a home - Priyanka Tibrewal

vacations at my grandparents' who lived contradictory to the beauty of traveling.

Home is the place where, when you have in smaller cities but I yearned to come Traveling in itself means crossing borders to go there, they have to take you in. - back to my city. The rhythm of the local and trying to hold on to freedom that trains and the taste of a spicy vada pav, doesn't come from staying in one place. the sight of the mighty oceans and To have a home or not have a home is the What is home for a traveler? Is it a small imperial structures standing boldly for question and I had no answer. Should I leaves me in Mumbai. Accepting defeat, I Nadu- if I am with people who I love, I hoped that as I grow up I will find a place think I will be fine. So to end this article with an overused line (because come on, what is a travel article without a line from traveling but when Why is thinking of a place to live in so an Instagram post), Home is where the

faraway resort, in what seems like an can be when I am exposed to new places, new universe speaking to you. You just abandoned garden, says it all. Says, how much I hate being in one place. finding my way around a busy city, or moment. Let sensations like the lapping

I've read it in this book 'Brida'- it says loneliness is man's worst enemy. And according to them, you'll be a loner if you never find your soulmate. But isn't your own soul your best mate?! I have myself to travel with always. I've heard it somewhere, people always run back to where it feels like home. don't have to run to places to be at home, my soul is my home. am always at home in this world.

So why be in one place, when there are on my life. sights that I haven't seen and places I haven't been to.

language.

Travel makes me yearn for something With time and traveling, I've realized that exciting and different, crave new there's no one way to live life and there's experiences and new Moreover, conquering fresh territory is You can't imagine how different life is in open my mind, hear my thoughts and in one place. allow me to discover and consider fresh - Rashi Gulati ideas I hadn't thought of before. Getting away gives me the opportunity to reflect

I travel for that moment when you look

The fact that I am writing this article in a When I travel I discover how resourceful I above at the sky and there's this whole people and experiences. Maybe it's have to relax and be present in the ordering a meal when I don't speak the water and the warmth of the sun, along with the sound of waves, recharge your batteries.

challenges. no one place to be at.

exhilarating. It's the ideal place where I another place until you see for yourself test myself. These experiences help me and that's the reason why I can never be

A Life of a Traveller

"Man cannot discover new oceans the making of the itinerary for all the them than you may learn from lectures unless he has the courage to lose sight expeditions. These expeditions take and excursions. of the shore." - Andre Gide

able to enjoy the serene sight of the port regions. land of a different country every few which brings in expert guides and squarespace. days. Admittedly, this is a level up to lecturers in various fields of expertise My bucket list definitely includes the beach house plan.

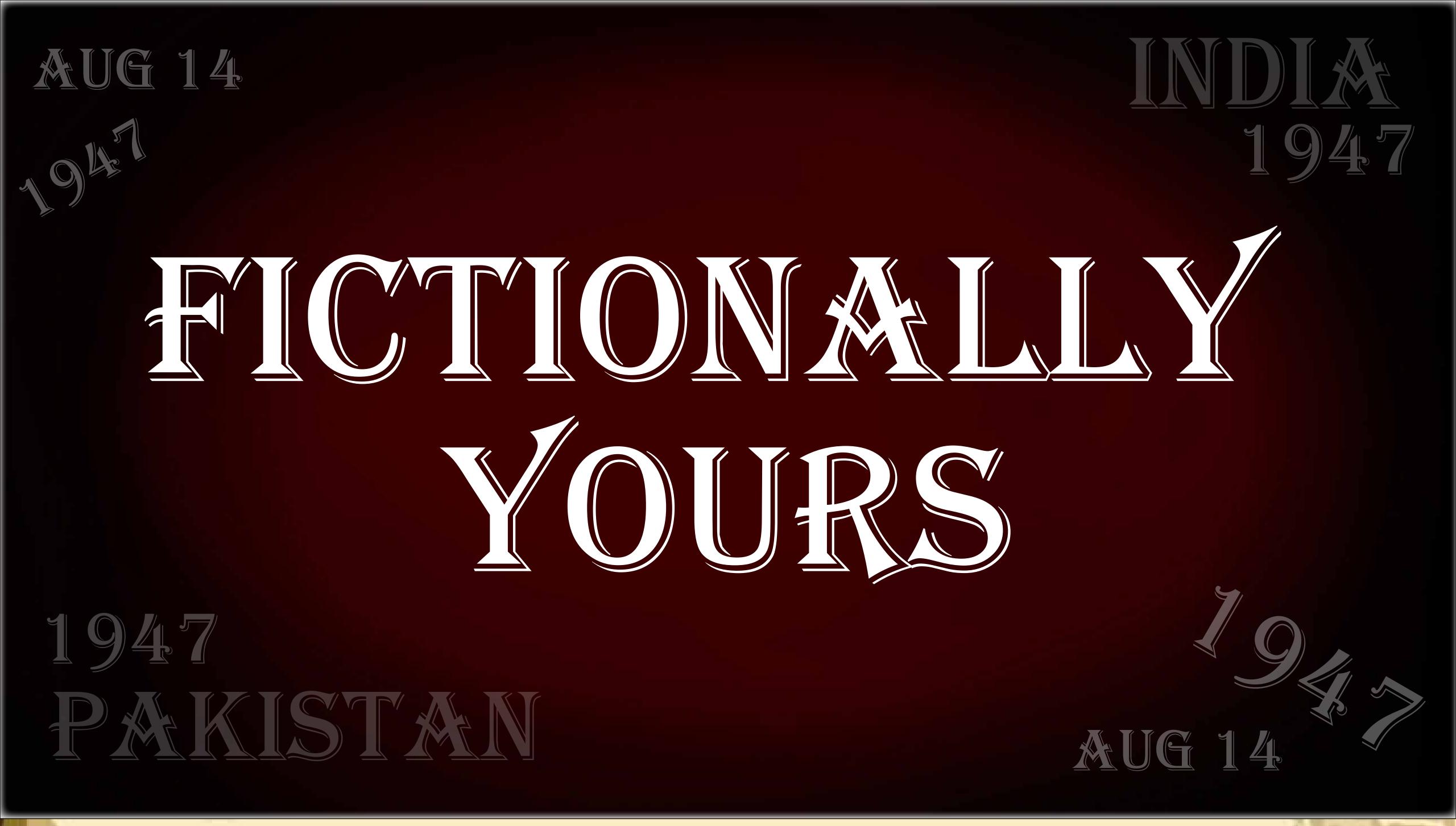
residential cruises that have been built residents get a the upcoming ones and 'Utopia' are the leading residential culture, etc. of the place. hospitality.

individual residences but in a way, support system. You may learn more - Disha Gala they own the ship. They have a say in about different parts of the world from

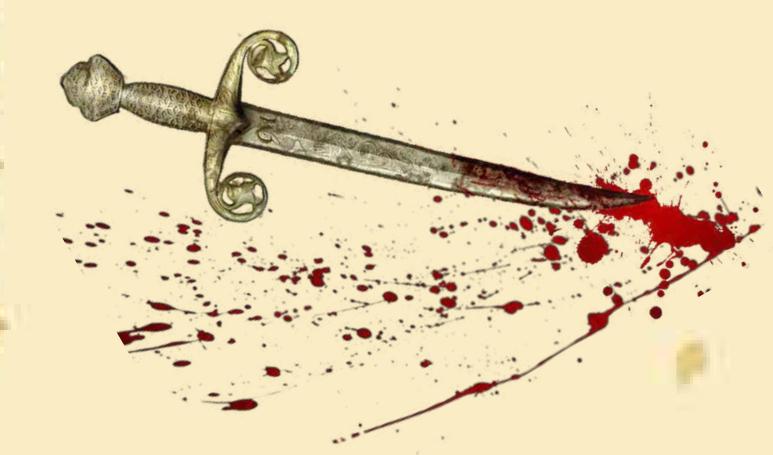
Here, the residents not only own their will become your best friends and your life of travel for you.

them around half the globe in a year, You can spend your days lounging by Looking out of the window and being letting the residents visit all important the railing and reading a good book or stepping down to the marina platform ocean whenever you want, now that's The cruise dwellers are promised an and go kayaking. You could sleep a dream! A beach house will be the all-round travel experience and that is under the open starry sky or dance dream house for all those ocean and exactly what they get. Their endless your night away, probably even spend l sea admirers. But imagine being able thirst for knowledge, adventure and your night away in the casino. You to witness a new horizon, a new travel are fulfilled. 'The World', for could have one hell of a roller-coaster scenery, a new marine line and the example, has an enrichment program life in this few hundred meters

(diving, wine tasting, and world spending a year or two on one of these A life of endless sailing and traveling is cultures) which prepares you for the cruise ships. But the person that I am, now possible through the many next port visit. It is ensured that the I also know that I can never spend proper local more than a couple of years sailing on with experience of the visited destination the ocean or the sea, regardless of top-notch plans. 'The World' and i.e. exploring the art, cuisine, heritage, how exciting the ship may be. Spending life on a ship is definitely not cruises, with many others not far These residential cruises are the for everyone. It is important to keep in behind in rank. These cruises provide perfect examples of multicultural mind that even though traveling is all possible amenities one could need settlements. On one side you may about pushing limits, it is definitely while spending their life on a ship, have Spanish neighbors while on the not about getting yourself sick. A without compromising on luxury and other you may have Brazilian pinch of wisdom is necessary along neighbors. Going ahead, these people with a carefree attitude for selecting a



BLOSSOMING ETERNITIES



northwestern India. It made the dead leaves began. The people of the country were bloodthirsty terrorists?" bump into each other and then hide in divided by their choices. Gayatridevi was now wrinkled and solemn.

reminder of the British Raj period. Maharani even more difficult to crack. Gayatridevi remained the only heir to this and sought her opinion on every matter. Her on the throne that was soon to be reduced to Queen in every sense of the word heart broke to see her people, the sons, and a decorated chair. "The kingdom is no longer

daughters of the land, in such turmoil and strong enough to run on its own. We have no distress.

The year was 1947 and the British had already princely states were in the arena of political the decision to them—" instability. Turbulent times rode the Chariot of

choice but to be the part of either one. I wish Once upon a time, her princely state was the we could peacefully join India but the face of prosperity, wealth and happiness. constant riots and the threats to my people Now, it had turned into a parched land of are forcibly bending me towards Pakistan. I discontent, torn in the wake of the partition. don't know what I should do, Bahadur Shah."

sucked Hindostan dry of its wealth. Now that "Maharani-sa," said her minister, "Don't strain the parasites seemed to be leaving, the yourself. As for the people, it is best you leave

An autumn wind blew into a dry street of Death as the Hindu Muslim war of discontent "And leave them to die in hands of some blind

corners. The street was lined with small shops the only hope to the majority of terrified An unknown voice sounded from the other and hard-working artisans on both sides. The people trying to find a peaceful life. Yet again, end of the courtroom. A young man eyes of the people looked deprived of hope little did anyone knew she herself was in appeared, his structure was as strong as his and happiness. Their faces were hollow, bigger trouble, and even more so on the radar words. The devotion of a united nation of the people who craved her destruction. reflected on his handsome face. The spirit of This small kingdom of Vijaygarh was on the unity burned in his brown eyes. Dressed in At the end of the street were huge gardens borders of India and the newly formed proper tailcoat entered a man with a mission. that were starved of care and attention. Pakistan. The Government had left a choice "Pardon me, Maharani-sa. I am Vikramdev, a Wildflowers dried and died. Vines entangled for the princely states to join either of the son of this kingdom's soil, wired with the and clung to each other. In the middle of it all countries, but the continuous terrorist attacks Congress from the time of my childhood. I am stood the Raj Mahal of the royal family. in the kingdom and the assassination pleased to make your acquaintance." He Stripped of its glory, it stood as the ugly attempts on the Maharani had made the deal bowed respectfully, as any man before the Queen would.

"As for what I have heard of you — the warrior huge estate. The people still respected her Gayatridevi was sitting in a lonely courtroom queen of Vijaygarh, ideal to her subjects and

had I thought I would be disappointed." barked the minister. "You—"

"There is no time sulk on what is pushing you battleplans. down. Take a look into the eyes of your people. 14th August, the day of liberation, the day of free. be your only hope. I am here to help."

them to join Pakistan. Their decision was made moonlight. - India would soon become their homeland. 14th August; the day of bloodshed, the day of "Don't cry, Maharani-sa. I don't want you to cry.

than her people. The small meetings, the open sat in the quiet, Vijaygarh sat in flames, lectures, the moments when Vikramdev saved screaming protest and violence. her in the riots. The time when they had their own private discussions which usually ended Vikramdev was satisfied, blushing towards the in eyelocks for short periods of infinity.

I remind you that you pledged the people's The flowers bloomed in the awakening to their. It is time to confess, he smiled ruefully to welfare. Your fame travels far and wide...never dream turning into a reality. He knew that his himself, pain spreading across his torso. The feelings were true. He would soon tell his love, sword piercing through him was forcing more "How dare you talk to Maharani-sa like this!" his Queen, at the very stroke of midnight — blood to shed.

when India would be a free nation, and hearts

wouldn't be restricted to courtrooms and He was satisfied by ensuring everyone's safety

They still believe in you. Lead them to freedom ascent, the day of security, the day of identity. "I saw her in the palace during my childhood," from this nightmare. I have come here to ask Gayatridevi started from Vijaygarh to the he whispered to no one. His blood pooled on you to join the very nation we dreamed of. Redfort to sign her agreement. The papers the royal carpet beneath him. "She was lonely India is our identity; take this chance, for it may were ready. She gracefully walked the passage yet beautiful. She was younger than me yet leaving behind her burdened mind. She walked she wanted to fight on her own against the towards her freedom and a normal life. The British. I have admired her since then. When

His words hit a cord in her heart. She felt her papers were the same quality, perhaps teak if Raja-sa died, her eyes were burning. On the spirits rising, but most of all, she found hope. special, but it would not compare to the place terrace, she screamed her sorrow..." She started working towards her goal. Her it held in her heart. She thought of her people, He could feel the life fading from his chest. His people wholeheartedly supported her. They her late parents, and Vikram. Blushing slightly vision tunneled and darkened, the stars began to fight against those who were forcing in silence, she signed her happiness in the turning into tiny, blurred dots of white.

the deadliest riots, the day of loss; the day I am always here to help you...I love you, Things changed and so did their heart. Death won, the day sacrifice weighed heavier Gayatri. Now..." he coughed to himself, "You Gayatridevi started to feel for someone other than goodbyes. While Maharani Gayatridevi are free."

sky, remembering his Maharani-sa.

during the big riot and now it was time to be

He smiled at her beautiful face in the sky as he felt his soul liberating.

&

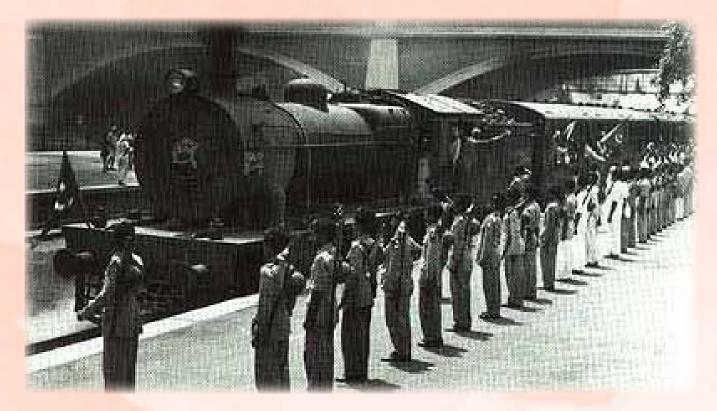
-Shubhangi Pingulkar (SYBA) Vaishali Kanekar (FYBA)

An India-Pakistan partition is an unforgettable **PARTITION FICTION:** event in Modern Indian history. As the political TRAIN TO PAKISTAN BY KUSHWANT SINGH

ambitions bore fruit, the country lamented the loss of an integral part of itself. The division ran deep, for it wasn't just the land that was divided, but also the hearts of people. Suspicions ran rampant, friends turned into foes, the delicate bridge of brotherhood that was established between the religions, fostered over 200 years of fighting the colonial enemies was shattered. What ensued was terrible bloodshed. Riots and rapes were

commonplace, those celebrating Eid and corpses of Sikhs from the other side of the onto its pages, the novel becomes fast-paced Diwali together wanted each other's blood, border. It is the author's picaresque and the readers are left holding their breath to The Partition Literature, both fiction and description that takes the reader back to 1947, know the fate of the Train to Pakistan. non-fiction written during those times and the to Mano Majra, and compels them to view the The novel, with just under 200 pages, has ones after that bear testimony to horrors of story through the eyes of onlookers, not just much to tell. The transformation of Mano Partition. But no other book touches your cold detached readers. Singh, a master storyteller, and an eminent well as antagonists in their own right. Juggut revenge is heart-wrenching. It isn't the journalist.

Their daily routine that wakes them up, another one in the night way it earlier was. that signals them to sleep and so on) until a ghost train arrives from Pakistan, filled with



punished for what their brethren have done to Sikhs? Or should they, their neighbors for generations be protected from the angry refugees? The answer comes in form of official summons, the village Muslims are being rounded up and sent to a refugee camp. Teary goodbyes ensue, but it all changes when a rioter comes into a Sikh gathering in a Guru Dwara, the public opinion is turned, the ones who cried teary goodbyes now volunteer to destroy the train that carries Muslim-refugees to Pakistan. The climax of the story hooks one

Singh is a goon who is in love with the local characters that the reader roots for in this Train to Pakistan is set in Mano Majra, a village mullah's daughter, Hukum Singh, a magistrate novel, but the entire village. Mano Majra seems off river Sutlej. It is a remote place that is for whom age doesn't matter when it comes like a living entity, whose fate is changed hardly frequented by any visitors, where the to desire, Iqbal Singh, who hides his Sikh irrevocably. It isn't the characters as much as villagers are simple folk, Sikh landowners and identity to look city-bred and modern. All the setting which is complex and daunting. Muslim tenants who live in relative harmony. watch helplessly as the massacre around them Kushwant Singh has awed the reader time and revolves around lengthens, until a series of events when again with his literary genius. Train to Pakistan train-sounds, (there's an early morning one everything changes, never to go back to the is one of his best works, and readers of

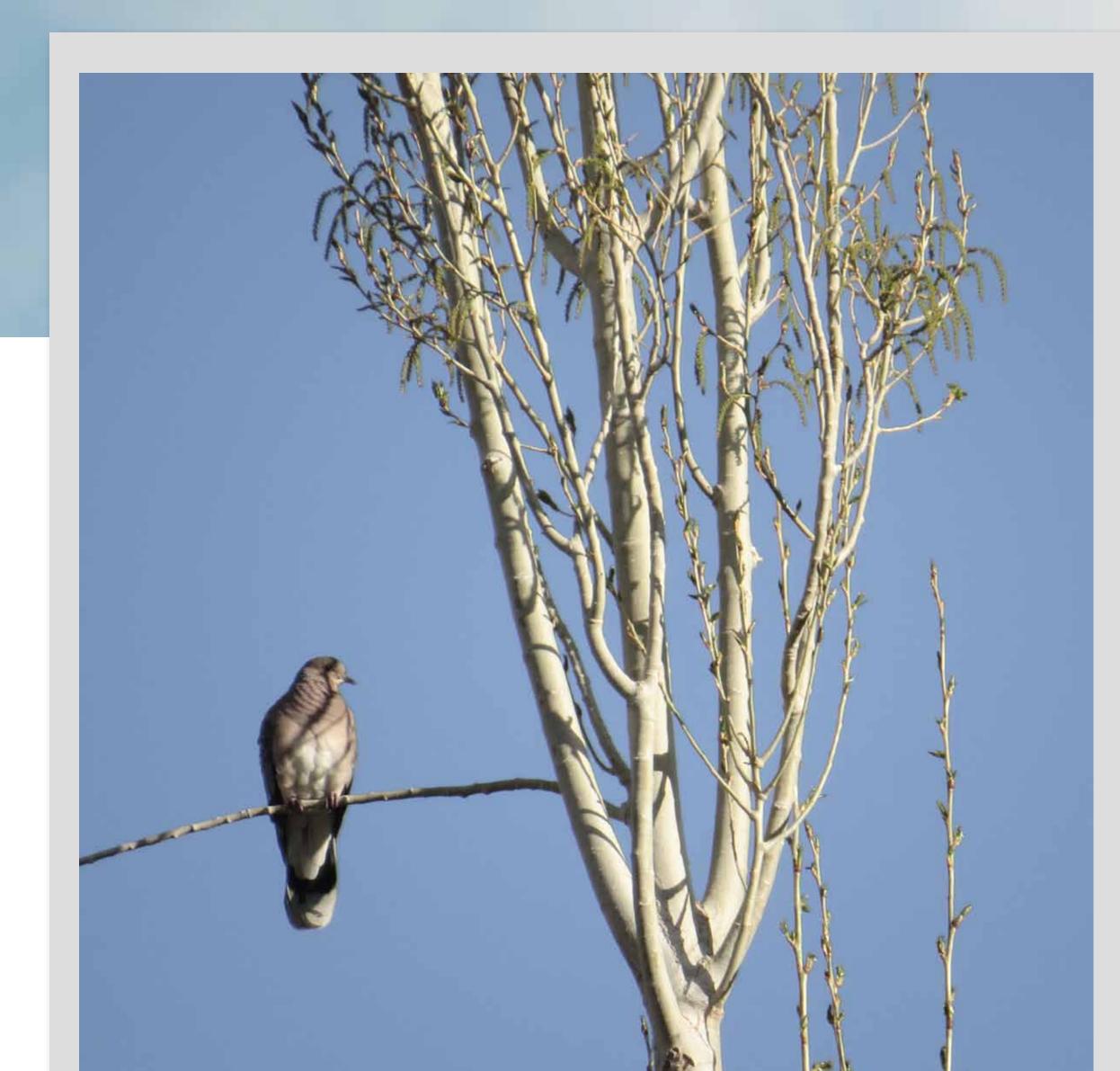
Enter the refugees and the conflicting miss. emotions rise, should the Muslim villagers be -Aditi Patil (TYBA)

Majra, how it went from a village not bothering

heart the way Train to Pakistan does. You The characters are multi-faceted, laced with whether it belonged to British India or the would expect nothing less from Kushwant shades of grey, they are both protagonists as independent, to the one that thirsted for historical fiction should not give this one a

ROAMING AROUND

THE CITY



throated kingfisher with its sharp red coloured beak. The Purple Rumped Sunbirds oftenly mistaken as Hummingbirds holds the power to grab our attention with its beautiful body colours of lime green, white, maroon, emerald green and purple. It's a magnificent site as the bird shines when sunrays fall on its body. Pink colour never fails to bring a huge smile on our faces of the migratory birds called flamingoes with their orange tint. A red coloured vent gives a characteristic name to the Red-Vented Bulbul. The large grey beak with white body amd grey feathers and tail of Grey Hornbills is worth viewing. The Asian Koel looks beautiful with it prominent red and black concentric eye color. The whole black body but when the Greater Coucal opens its wings for a flight the vermillion red coloured wings looks spectacular. A Coppersmith Barbet is one of its own kind with different blend of green shades, red, blue and black colours. The green feathered, long tailed red beaked Parakeets looks absolutely beautiful from the busy streets of Mumbai. The pink and black tint on the whole white body of a Painted Stork looks amazing in flocks. The majestic Black Kites are in abundance due to their scavenging abilities. Birds like Little Egret, Pond Herons, Grey Herons, Flamingoes, Lesser Sandplovers, Common Hoopoe, Red-Vented Bulbuls, Common Myna, Black Kites, Asian Koel etc are found in the bird watching spots of Mumbai like Maharashtra Nature Park at Sion, Sanjay Gandhi National park, Airoli Flamingo Sanctuary and also few can be spotted right outside your windows. What requires is a little patience and a keen eye! Undoubtedly it will make your life more colorful.

Colors of Mumbai

What different things come to your mind when you hear the word "ART"? Have you ever thought what Art nature wants to present to you? By just looking around you can catch the essence of art in the nature. The different shades of orange, red, blue, yellow in the sky from the dawn till the dusk. The beautiful colourful birds chirping around the city. A wide splash of colors out in the greys, browns and the greens of the city can be spotted easily which many of us are unaware.

The pointed black beak, long black legs and white feathered body of a Little Egret can be easily spotted in the lavish green surroundings. The blend of blue, brown, white colours looks spectacular on the body of a white

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