

## THE EDITORIAL

### Hey there, Ruiaites!

How's everyone faring in this back-to-college month? We understand your excitement of meeting college friends after what seems like forever, of beginning a brand new semester with the same grit and determination that you showcased earlier and to get those wonderful exam results (kidding!). Well, to make this fresh semester even more refreshing, we bring you our latest November Edition of your beloved Ruiaites Monthly!

So, what all do we have in store for you? Hmm, let's see. To begin with, we have some Tech Tricked presenting a wide range of assorted articles - right from awesome future home appliances to intimidating space debris. Next up, we are serving Behind The Scenes with its theme "Behind The Things". We won't spoil the fun by telling you all about it! We are also offering Insight with its

article on the reminiscence bump, supported by anecdotes by real-life adults. How cool is that!

Oh wait, there's more. We have Open Forum exploring the mystic domain of dreams, while Art Wall will take us for Mumbai Darshan with its breathtaking photo display of Mumbai's Architecture. Let's not forget that Career Wise is celebrating Mental Health Awareness this month, and has compiled an interesting article dedicated to mental health professionals. Besides, Safarnāma is all set to take us all to the USA, in the footsteps of a student who went on a college trip to the University of Pennsylvania. Not just that, we hear they are also giving away American street food! Yum!

Buzz Around, on the other hand, will be elaborating on the gruesome Gorakhpur tragedy, while Op-Ed is celebrating Movember by bringing forth certain

issues faced by men. In the meanwhile, Science of Everything will be presenting a variety of issues, ranging from the discovery and development of drugs (ahem ahem, strictly medical, mind you!), the origins of life to global warming. Lastly, we have Fictionally Yours bringing you an all new story titled "Fated to the Sword". And believe us when we say that it's downright mind-boggling!

Also, please do not forget to check out the talented entries that we have featured in Students' Corner as well as some fascinating reports, with the highlight of the Edition being the report on the outstanding NAAC Results! On that note, congratulations to all of you and to Ruia College on receiving Grade A+ and a CGPA Score of an incredible 3.70!

Now, go on, turn to the next page, and see what all awaits you!



# Re-accreditation of Ramnarain Ruia Autonomous College by NAAC, 4th cycle

The IQAC members initiated activities with regard to quality enhancement, sustenance and quality management so as to develop and apply quality benchmarks/parameters for the various academic and administrative activities of the institution as the institution was gearing for 4th cycle of reaccreditation by NAAC.

It has been a proud moment for the College and the IQAC team as the College has been accredited with 'A+' grade and a CGPA of 3.70 on a four point scale. Ruia is the only Arts and Science College under Mumbai University with Highest CGPA in the 4th cycle of accreditation.

The IQAC played a significant role in ensuring timely, efficient and progressive performance of academic, administrative, financial tasks as well as preparation of various reports. Preparations for NAAC visit started with the online submission of the Self Study Report in the month of March 2017

followed by the submission of a supplementary report in August 2017 as the College has become Autonomous in July 2017. An addendum was also prepared based on the activities conducted till day of NAAC Peer team visit. Our Principal oriented the teaching faculty, students and support staff about our College being evaluated under the assessment pattern followed for Autonomous College, though Autonomous status was granted merely 3 months prior to the NAAC Peer team visit. IQAC constituted several committees before the peer team visit. The committees met regularly and prepared the College for NAAC visit. College conducted two dry runs as a part of the preparation.

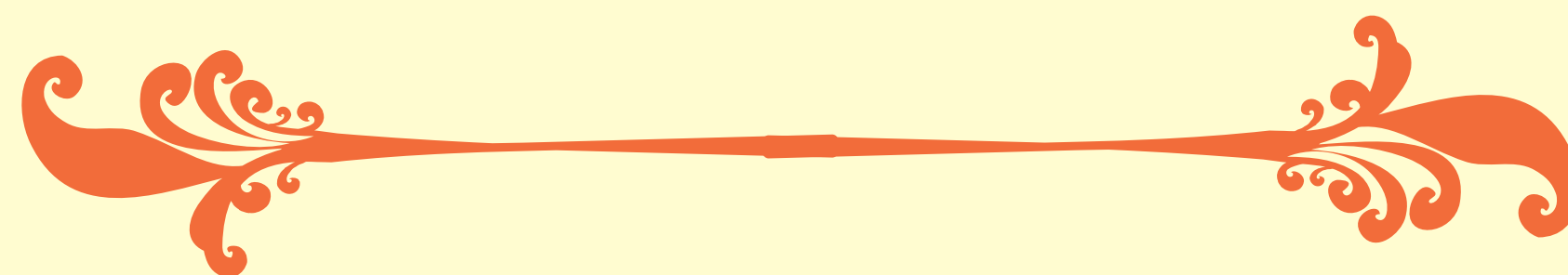
NAAC Peer team visited our College on 9th and 10th of October 2017. On the first day, the visit comprised of interaction with the Principal, IQAC, Departments, Centre for Slum studies, NCC, NSS units, Gymkhana, Self Vision

Centre, library, Administration section, and Examination cell. Peer team visited every department and every facility of the College with enthusiasm. They also had interaction with all stake holders. Non-Departmental associations had arranged an exhibition that was well appreciated by the team. This was followed by a cultural programme organized by students.

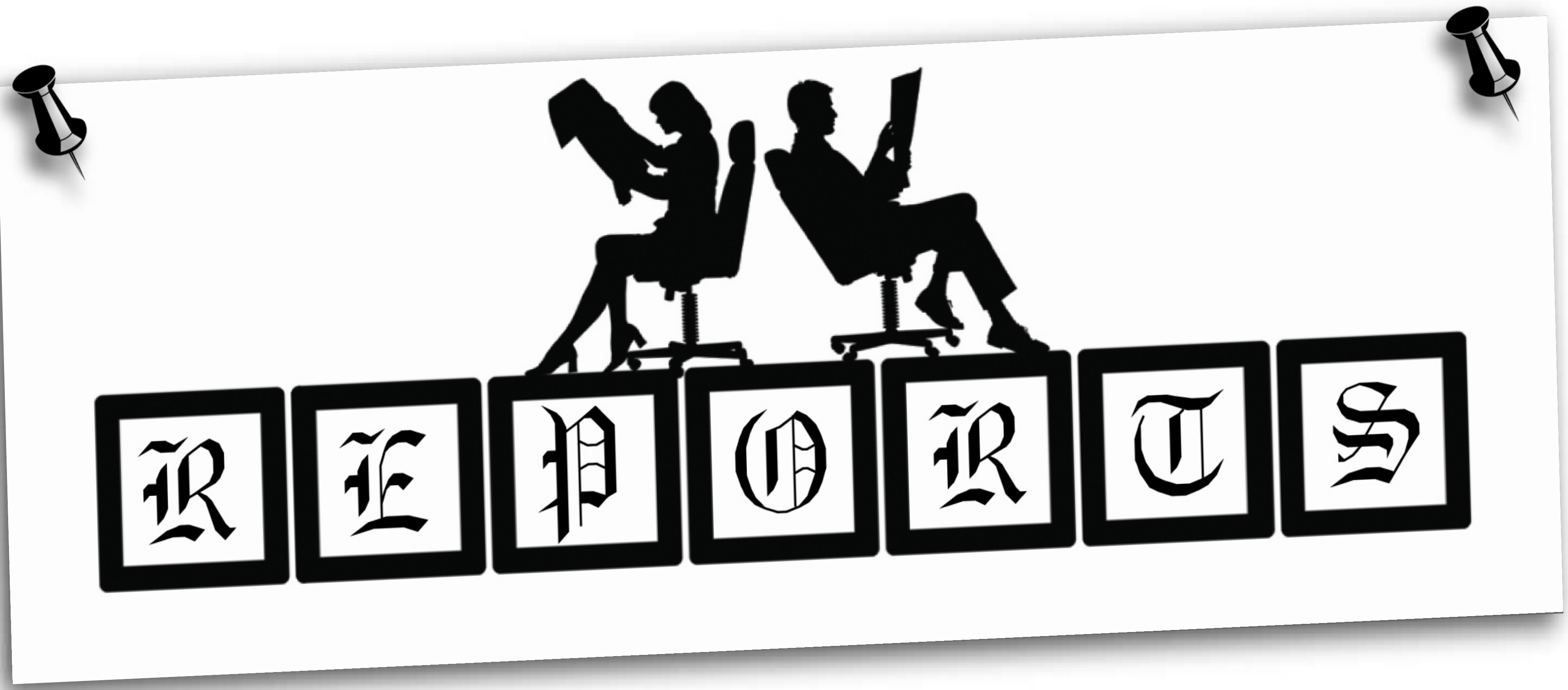
On the second day the Peer team visited IATRIS, an additional facility of our College. The team also verified the documents and records prepared by IQAC. Two day visit ended with an exit meeting in the evening. In the exit meeting, the Chairman of NAAC Peer team appreciated the students, faculty and support staff for their commitment and active participation in all activities of the College.

IQAC thank all stake holders for their support and cooperation.

*Dr. Jessy Pius*  
*Coordinator, IQAC*







## The Sanskrit Diaries

'Sanskrit Sambhashan Varga', a Sanskrit speaking workshop was organized in Ramnivas Ruia Junior College from 13th September - 23rd September, to enable and empower students to converse fluently in Sanskrit.

Sanskrit, considered the 'mother of all languages', is a significant part of Indian culture and tradition. To imbibe a sense of belongingness towards the language, Bageshree Kolhatkar Ma'am of Sanskrit Department (Junior college) took the initiative of organizing this workshop. The workshop was conducted by Sanskrit Bharati.

Knowing Sanskrit and speaking Sanskrit are two completely different things. For the graceful confluence of these two aspects, seventy students attended the workshop. The trainer of the workshop, Vidhyesh Paradkar Mahodaya, came all the way from Goa to teach the students. The interactive sessions made sure that everyone framed and spoke some sentences in Sanskrit.

Names of birds, animals, home appliances, relations as well as time were taught in Sanskrit through demonstration. Simple Sanskrit sentences were spoken. Baby steps towards the conservation of the language were taken. The session would commence at 10am and end at 12 pm sharp everyday. In the beginning of the session, one Sanskrit song would be sung and at the end of the session, everyone would sing the 'camp song'. After all, song is a great medium to learn the intricacies of the language.

Many students of the science fraternity participated in this workshop. Two student who did not have Sanskrit as an academic subject, also took part. The workshop received an overwhelming support from all the students. The response was so positive, that two students have gone to Goa in order to complete the next level.

On the last day of the workshop, the students put forth some brilliant performances. Mrs. Shyamala Bhatt graced the event with her esteemed presence.

'Deepadanam', a thrilling drama which narrates the story of Panna and her supreme sacrifice, was staged by a group of students. The monologue of the Marathi movie 'Natasamrat', was translated and presented in Sanskrit by a student. Poems, conversations, songs were so presented in Sanskrit.

संस्कृतेन भाषणम्,  
संस्कृतेन लेखनम्।  
संस्कृताय जीवनम्  
संस्कृताय अर्पणम् ॥

Thus this workshop succeeded in enhancing the Sanskrit speaking skill of all the participants and developed a sense of devotion and dedication among them. It has also given them fond memories that they will cherish forever.

Prarthana Puthran  
SYJC - A

## MA CHÉRIE (My Dear) PONDICHERY!!

The French and the History Departments of Ruia College organized a joint official trip to Mahabalipuram and Pondicherry from 2nd November, 2017 to 6th November, 2017. During the course of 5 days, the group of 37 French and History enthusiasts, accompanied by Professor Louiza Rodrigues of the History Department, not only visited the enchanting ruins of Mahabalipuram but also explored the fascinating former French Colony of Pondicherry, or Puducherry, as it is named today.

As soon as the early morning flight landed at Chennai, the group left for Mahabalipuram, the 1300 year old ancient stronghold of the Pallava Dynasty. There, they paid a visit to a number of historical sites, including the main temple complex, the Five Rathas and the famed Krishna's Butterball, which is essentially a boulder balancing itself on a steep slope for quite a while now or maybe since the beginning of time( who knows?).

After spending a few hours in this mystifying ancient city, and after a delectable meal of a traditional South Indian thali, the students headed towards the nearby crocodile park, boasting a diverse range of crocodile species. The next four days were spent in exploring Pondicherry - the ultimate tourist haven! The trip covered a number of tourist attractions in and around the former French colony - the Aurobindo Ashram, French Institute of Pondicherry, École Française, Perumal Temple, Cathedral of Immaculate Conception, the famed Promenade, Pondicherry University and the heavenly Paradise Beach. The students also paid a visit to Auroville, the International City founded in 1954.

Apart from sightseeing and shopping to heart's content, everyone relished a multitude of cuisines, right from the authentic South Indian Thalis to the French, Greek and Italian cuisines. All in all, the trip ended on a very high note with a satisfactory shopping spree right outside the Dakshin Chitra Cultural Museum.

Ojas Chaudhari,  
TYBA French







## Gorakhpur Tragedy- A Shocking Truth

Tragedy hit Gorakhpur again in November when 70 children in Neonatal Intensive Care Unit and Paediatric Intensive Care Unit suffering from various ailments, including premature birth, infection and Septicemia among others, died within 5 days in Baba Raghav Das (BRD) Hospital and Medical College. This episode was a rerun of the August 2017 incident, when as many as 60 children died, allegedly due to lack of oxygen supply in the same wards. The hospital however states that the deaths were due to Acute Encephalitis Syndrome, a deadly disease that has claimed over 25000 lives in this hospital since 1978.

BRD Hospital and Medical College, Gorakhpur is one of the biggest and most frequented hospitals in Uttar Pradesh, attracting patients from the large 300 sq km area, as well as from Bihar and Nepal. It is also one of the very few hospitals that have special wards for treating paediatric Encephalitis. Most of the patients brought are from extremely poor families and from remote areas of

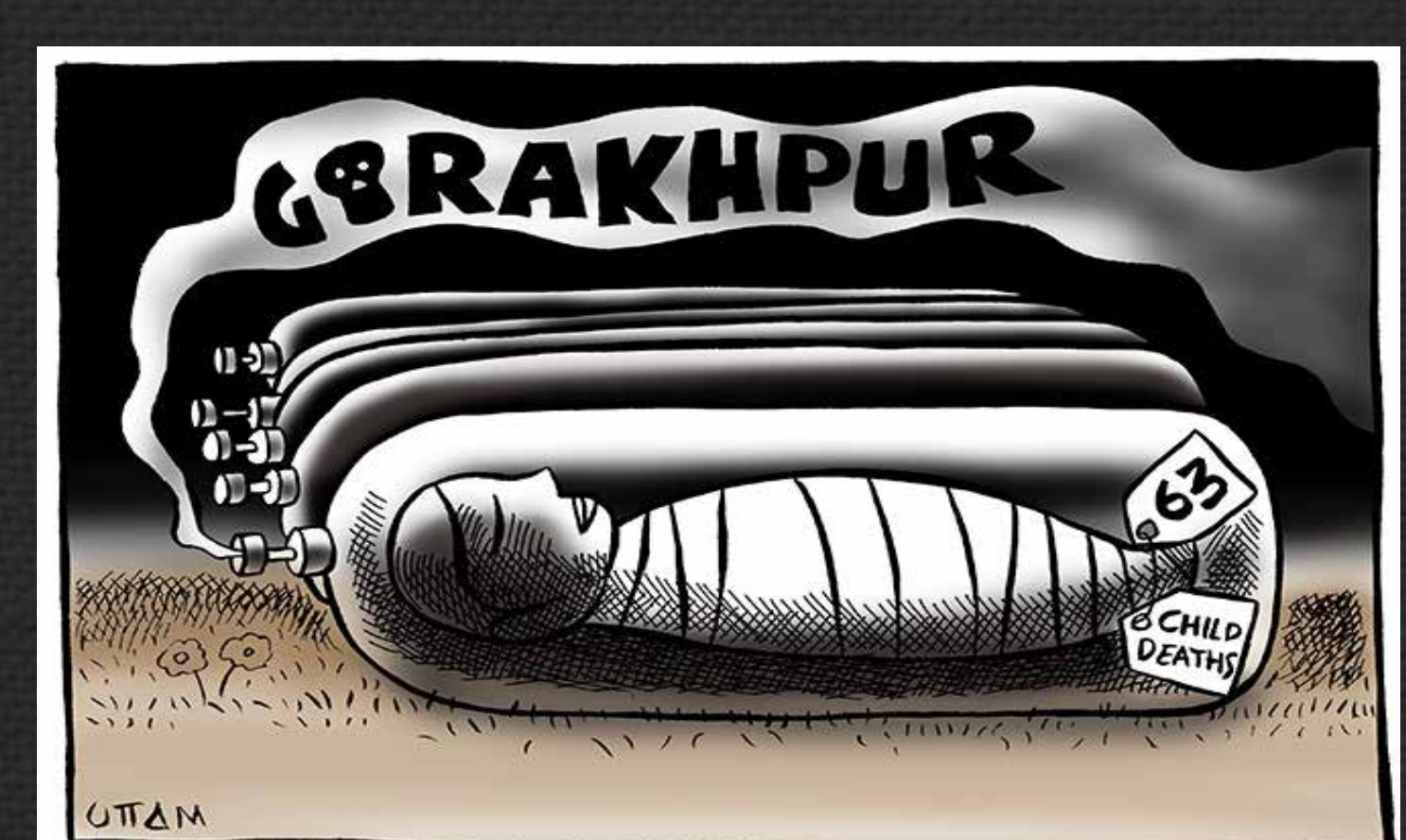
Uttar Pradesh. Some blame mismanagement, some blame corruption while the hospital blames the lack of funds responsible for the huge number of deaths occurring annually in the Hospital. As we dig deeper into the records, a frightening picture comes into light. Surprisingly, 2017 is the very year in which there has been a sharp decline in the deaths, the number was 6,121 in 2016 and 6917 in 2015. The daily average was 16 in 2014, 19 in 2015, 17 in 2016, as against 6 in 2017. The picture has apparently improved due to various measures taken by the new State Government including vaccinations, spraying of insecticides, etc. Nevertheless, 6 deaths occurring daily in a speciality hospital is indeed distressing. This made us dig even deeper into a much bigger issue - Health Care in Rural India.

According to the Economic Survey of India, we have been successful in bringing down the infant and maternal mortality rate as well as increasing the life expectancy rate. But the bigger picture is

not as rosy. India has been criticised for allocating low amount for health care in its budget. India's health care spending stands at just 1.4 per cent of GDP, as opposed to various developed nations spending as much as 10 per cent of their GDP on health care. Though existing infrastructural setup for providing health care in rural India is on a right track, yet the qualitative and quantitative availability of primary health care facilities is far less than the defined norms by the World Health Organization. Union Ministry of Health and Family Welfare figure of 2005 suggests a shortfall of 12% for sub centers (existing 146,026), 16% of Primary Health Centers (PHCs) (existing 23,236) and 50% Community Health Centres (CHCs) (existing 3346) than prescribed norms with 49.7%, 78% and 91.5% of sub centres, PHCs and CHCs located in government buildings and rest in non-government buildings respectively requiring a figure of 60,762, 2948 and 205 additional buildings for sub centers, PHCs and CHCs resp.

Location of PHCs and CHCs are far of distance from rural areas and so procure a heavy daily loss of wages. This leads to the rural people accessing facilities of private health care practitioners, usually unregistered, and at affordable charges in their villages.

The only way that could lead to the goal of health inclusion is by incorporating the needy rural population through community participation. It is a common complaint of people that government health functionaries are struck with non-availability of medical staff. In one study, it was indicated that 143 public facilities found absenteeism of 45% doctors from PHCs with 56% of time found to be closed with an unpredictable pattern of closure and absenteeism during regular hourly visits. A survey report from Madhya Pradesh in 2007 states that out of 24,807 qualified doctors and 94,026 qualified paramedical staff mapped in the survey in the state, 18,757 (75.6%) and 67,793 (72.1%) were working in the private sector respectively highlighting the government's failure to provide basic infrastructure to doctors and other health care workers in rural areas.



The situation in our home state Maharashtra is no different, although comparatively less dire. A research done by Samarthan, a Non Government Organisation, shows that the rural areas of Maharashtra are short of around 2,444 health centres. These regions include - Nagpur division, Nashik Division and Marathwada division. On the other hand, there are districts like Ratnagiri, Sindhudurg, Gadchiroli, Chandrapur, Gondiya, and Bhandara whose need for health centres has been fulfilled by the state government.

With the Survey's findings it is seen that while health care in India is on the right track with positive changes in infant mortality and maternal mortality rates as well as in life expectancy rates, we still have a long way to go, in order to increase the quality and efficiency of our health care.

-Aditi Patil.

## SIMPLY PUT

### Delay in the declaration of final year results and the problems faced by the students.

The wait seems to be endless for the students of Mumbai University, which is currently under fire for missing deadlines one after the other, and subsequently delaying the results of exams that were held in March and April. The final year students of Bsc, BA, BCom, Law, etc are waiting for their final year results that seem to be delayed yet again.

Here are the reasons behind the delayed results -

#### When were the results initially to be announced?

The university was initially expected to release the results of the final year exams in June, as it goes every year. The exams were held during the time period of March and April. More than 2 lakh papers are yet to be corrected by the university with its efforts towards "on screen" assessments. Due to the lack of a proper agency to implement the new system, the results of numerous courses have not been announced. Although there has been no notice regarding the status of the results, the expected date of the results declaration had been marked as the 5th of August.



#### What is the reason for the delay in declaration of the results?

Following a scam related to tampering of answer sheets in May 2016, Mumbai University Vice Chancellor Sanjay Deshmukh announced in January 2017 that all final year answer sheets would be digitally evaluated. The process involved answer sheets to be scanned and then evaluated by examiners and moderators, leaving no room for manipulation. However, this year, the sixth semester results of the final year students were delayed owing to the Mumbai University and their onscreen evaluation process aimed at avoiding any tampering of examination result, leaving the final year students unsure about their future. However, this is not a new thing as the same incident occurred during the declaration of the fifth semester results. Another major reason, is the leave of teachers for their summer vacations. Teachers need to cut down their leaves for smooth functioning of the examination assessment process.



#### What are the consequences that the students are facing?

A fear of dropping a year has been one of the major concerns of most of the final year students. Any student applying to various reputed institutions will now have to sit back, hope and pray that their results are declared on time so as to avoid any drops or career loss. A lot of students who applied for jobs at various agencies and firms also stand a risk on losing out their jobs as their unavailable to provide their final year result. The students' career has gone for a toss. Students who wish to pursue further studies are themselves uncertain. Many of our own college seniors faced and are still facing serious troubles due to the delayed results. Even after passing the entrance examination of various reputed institutions through merit, they are not eligible to secure their seat due to the unavailability of the result. It caused a lot of ruckus to the migrant students as well. Mr Tushar Dhamale, student of TYBSc, was denied admission in Baroda University even after securing 5th rank due to unavailability of sixth semester marksheet. Similarly another student named Ms Gayatri Kulkarni lost the only seat in open category for masters in Public health.



#### What steps did the students take?

To solve this problem a student organisation, ABVP was formed. It is an online petition against the passivity of MU and there are already more than 1000 petitions. Apart from this, many students have filed petitions to talk to the VC and lodged complaints with the RTI. Students also organised rallies like the "Bheek maango andolan" outside MU Kalina campus to protest against the reckless and irresponsible behaviour of the university.



Even now the date of declaration of results remains unclear and the university authorities are stating that the assessment is in full swing. Will the university make up for the lost opportunities and aspirations of these students? Will they be compensated? Or will the students have to compromise with the limited availability? Only time will tell.

-Riddhi Solanki

## TOP 10 NEWS

1. Emission from firework dropped by 40% this diwali.
2. Air India seeks proposals for sale of scrapped aircraft engine parts.
3. 7.5 lakh public internet hotspots to be set up by the next year.
4. Aadhar linkage with bank accounts not mandatory : RBI reveals in RTI.
5. Gujarat assembly elections threatens upcoming winter session of parliament
6. The NIA wants controversial "preacher" Zakir Naik tried under terror laws.
7. Odd even rule back in New Delhi from Nov 13th.
8. Aarushi murder case : Talwar couples acquitted after 4 years from Dasna Jail.
9. Ashish Nehra retired after New Zealand T20 at Kotla.
10. India to see highest salary increase around Asia Pacific in 2018 at 10% ,says survey.



Tweet by Soumyadip Choudhury-  
The water purifier, the home UPS/inverter, the air purifier in our homes are not signs of success. They are symbols of failure.  
Submitted by Pushkar Bhatlekar.

"The dead cannot cry out for justice. It is a duty of the living to do so for them."

- Lois McMaster Bujold  
(American Writer)

Submitted by Chinmay Parulekar.







# CAREER WISE

As India rapidly moves on its path to becoming a developed nation, taking care of one's mental health is more important and more discussed than ever before. Along with that comes the opening up of new avenues for mental health care. Read on to find a few out of the box careers related to psychology.

**Therapists:** Psychotherapy is Applied Psychology. The therapeutic approach is based on building a therapeutic alliance in order to change the self-sabotaging behavioral patterns, destructive emotions and correcting errors in thought or irrational cognitions of the clients without medication. Psychotherapy requires the study and supervised practical training and experience in several traditional and contemporary therapeutic models. Client-centered therapy, Cognitive-Behavior therapies, Gestalt therapy, Behavior therapy, Psychoanalysis, etc are some of the therapeutic approaches a psychotherapist must be trained in. To pursue the career of a psychotherapist, one should have a genuine desire to help other human beings. To be a good psychotherapist, just a degree is not sufficient. Being empathetic and being a good

listener is important. Patience as a quality is required in this field as one has to help individuals overcome their personal, behavioral or work related problems. Basic skills such as attending, responding, personalizing, initiating and evaluating as well as training in empathy, genuineness, respect is also needed. Knowledge of various regional languages is an asset. Excellent communication skills however, are an absolute must. One has to be a graduate or post graduate in Psychology, then study clinical counseling or industrial psychology. There are various certificate courses, diplomas and degrees available, spanning from few months to years in India. Today there are good career opportunities for a psychotherapist. After graduation, one can work as a volunteer with NGO, help line, or as an assistant in counseling and rehabilitation center. With a

master's degree, one can be employed as a counselor, providing mental health services. Those who are inclined towards teaching can become psychology teachers. One can be involved in research and data collection and analysis in institutes or private companies. Psychologists with training in Quantitative Research methods and Computer Science have a competitive edge over others. Salary ranges from Rs.28,000 to Rs.80,000 per month depending upon experience and level of expertise. Names of few Institutes that offer courses in Psychotherapy -University of Mumbai -SNDT University, Mumbai. -Institute of Human Technology -University of Delhi -Tata Institute of Social Sciences, Mumbai -National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore

**Counsellors:** If a person fails to cope up with the daily stress in a healthy manner, it can advance to mental and emotional strain. Mental health counsellors can be lifeguards for a person drowning in stress and anxiety. A professional offers counselling, support and guidance to lead a happy life. Mental health counsellors encounter a lot of different mental problems during their careers like depression, bipolar disorder, panic disorder, phobia,

eating disorder, chronic pain, suicidal impulse, etc. A good education is imperative in mental health counselling careers so as to have knowledge about the mind and its issues and nature of people. A Bachelor's Degree in counselling in any specific area of mental health, a 4 years course or a Bachelor's degree in psychology is the beginning of Counselling career. 2 years of Master's education is necessary. Many colleges in India provide

this course. Mental health counsellors work in hospitals, mental health centres, clinics and also as school counsellors. A counsellor must be empathetic and understanding. Also she/he must be a person with cool temper. Today with the increase in depression, stress and suicide rates, this profession has gained a lot of importance as it helps a person to maintain a normal mental health. A counsellor can pull a person out of a mental din.

**Special Educators:** A special educator is qualified to train and teach children with disabilities. These include children with intellectual impairment, cerebral palsy, physical disabilities, auditory impairment, autism and behavioural and learning disorders. A special educator basically provides curriculum plus training to children with special needs. These include braille training to the visually impaired, communication training to the hearing impaired, etc. Technological aids such as audio books, CDs, etc. are used today in schools for special children. Curriculum, too, can be tweaked to suit individual needs and the students are given light coursework. In India, there is dearth of schools or educators, though the number is increasing. It is now seen as a lucrative profession. A lot of people are also seeing the possibility of

entrepreneurship and exploring opportunities to set up their own centres. Special children take time to respond to your teaching and care, so you should not expect instant rewards. This is an ideal career for someone who is compassionate and open to challenges. A special educator can earn the equivalent of what a teacher gets at the primary level, which is about Rs. 22,000 to Rs. 25,000 a month. For trained graduate teachers it can go up to Rs. 30,000. Teachers under contract as per the Sarva Shiksha Abhiyan get up to about Rs. 22,000 a month. Some international schools pay over Rs. 35,000 a month to special educators. A special educator needs the following qualities -

- Positive attitude
- Patience and ability to establish a good rapport with parents and children

- Should be skilled in understanding the learning needs of children and associated behavioural problems
- Good communicative skills as one has to deal with parents as well
- Good sense of humour

After passing Class 12, one can go for a two-year DEd in special education in any category related to disability. Else, get a diploma in community-based rehabilitation (DCBR) or multi rehabilitation worker (MRW) with six months certificate course in education of children with special needs. Further, go for a postgraduate diploma in community-based rehabilitation (PGDCBR) with six month certificate course in education of children with special needs. A person with any other equivalent qualification approved by the Rehabilitation Council of India can become a special educator.



# BEHIND THE SCENES

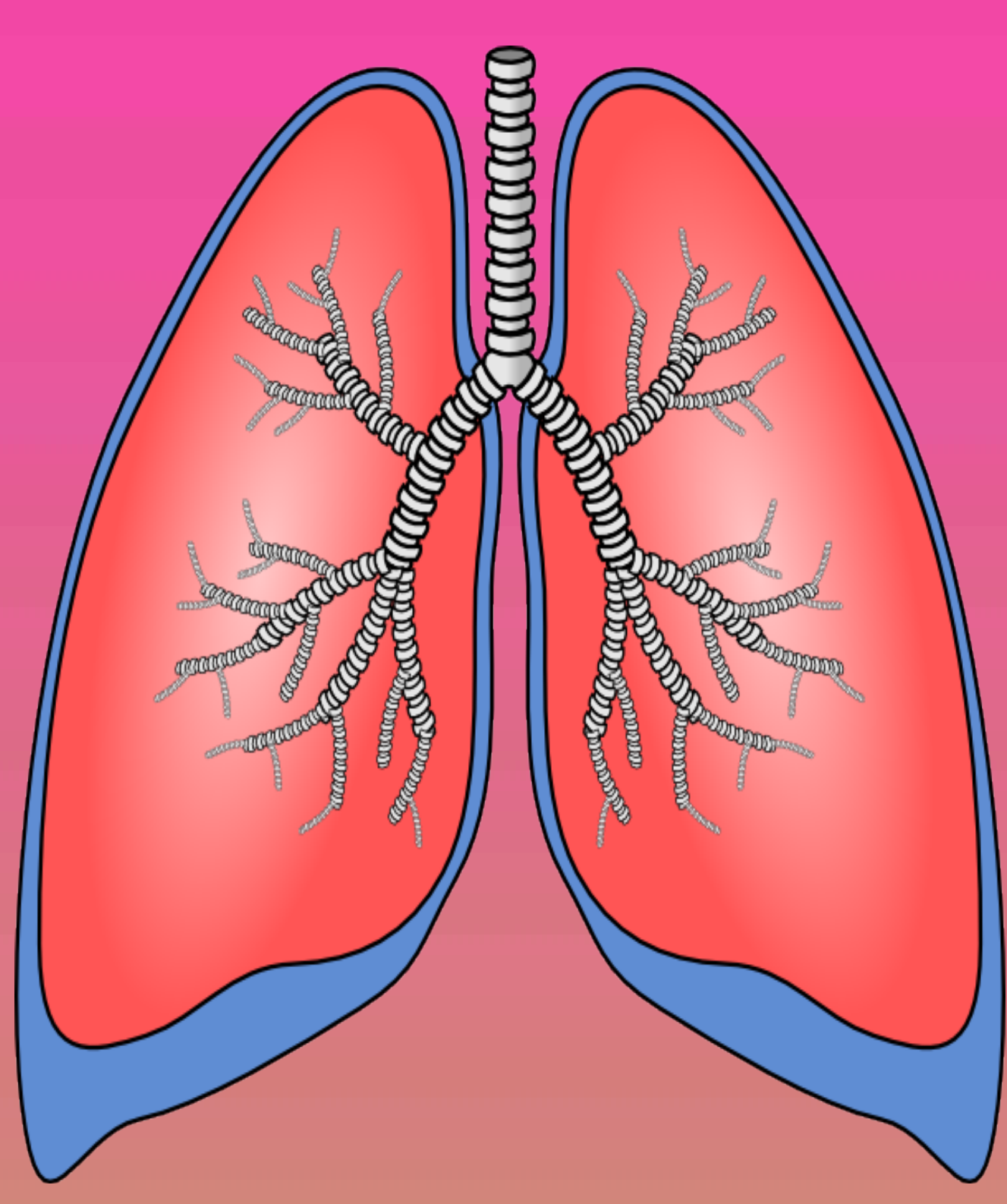


## “Unknown Stuff About Known Stuff!”

We start our day by brushing our teeth in the morning. Have you noticed the coloured marks at the end of any toothpaste? They indicate whether the toothpaste is made using natural ingredients or chemical ingredients. Did you know apart from using it as whistle, the hole in a lollypop stick is to hold the candy? Even though pom-pom on the winter cap is considered as a style statement it is actually to protect your head if you accidentally bang it.

So this month, at Behind The Scenes, let's take a look at the unknown purpose of things around us..

### TASTE RECEPTORS ON LUNGS



Everyone has tried that one dish they don't like at all. You gulp it down as soon as it's in your mouth, thinking that, maybe if you just get it past your mouth, you won't have to experience its disgusting taste, right? Well, tongues aren't the only place which have taste receptors. Taste receptors can be found on a lot of other parts of the body, like your lungs and your digestive tract. But these receptors are pretty different from the ones in your mouth and can only tell bitter taste.

The ones especially in your digestive tract send signals to your brain asking you to stop eating if the food is too bitter, as bitterness can be sign of poisonous substances. So, to avoid anymore poison from entering your body, the receptors fire away signals to stop it. If you have developed a taste for bitter foods, you most probably feel full while eating earlier than most other people.

### AIRPLANE WINDOWS



Lifting the shades on the windows during take-off and landing might seem like a trivial task, but it is much more important than you would think. This is because in cases of emergency the cabin crew only has 90 seconds to evacuate the airplane. In order to make this possible the crew prepares the passengers and the aircraft. This also means emergency personnel outside can see into the cabin to assess the situation. When you look outside the airplane window you might spot a scary-looking small hole in the window.

While you're airborne there's a giant difference between the pressure inside the cabin of a plane and that outside of the plane. This hole actually reduces the pressure on the middle pane, so only the outer pane takes the force of the cabin pressure. Also, if the outer pane somehow was broken by debris, we'd still have the middle pane to protect us from the lack of air pressure outside. Sure, it'd have a small hole in it, but that's nothing the plane's pressurization system couldn't compensate for.

### HEINZ KETCHUP



We as Indians, who love tangy food items, surely have tasted ketchup a million times. Even though it is not used as much in India, Heinz is a famous ketchup brand in America. Heinz sells a whopping 11 billion packets of ketchup a year for which they buy two million tons of tomatoes every year. All of us have seen the large Heinz ketchup bottle and most of us assume that the number 57 on the bottle stands for number of varieties of the ketchup.

Although Heinz sold more than 57 varieties of products when it first branded itself, the number was chosen because the founder considered it lucky. Some of you might have noticed the small 57 at the neck of the bottle. According to the Heinz website if you apply a firm tap on the 57 at neck, ketchup is released faster from the glass bottle. So, next time remember to tap at the sweet spot of the bottle to pour the some ketchup from Heinz.

### BALL PEN CAPS



We have all noticed the hole in the caps of ballpoint pens. Regardless of the company, almost all pen caps have these holes. While we as children typically used them as whistles that is not the purpose they are meant for. There are different theories about their real purpose: some think that it is a deliberate move by the manufacturers so that the tip comes in contact with air and the ink dries faster while some think that it helps to equalise pressure.

The real reason is very different. These holes are there to prevent suffocation in case they are accidentally swallowed. Many people, children and adults included, are in the habit of fixing the cap to the back of the pen and then putting it in their mouth. If by chance the cap is swallowed and gets lodged in the windpipe these holes prevent choking which can be potentially fatal.

### PINS ON THE JEANS



Most of us think these tiny pins help in accessorizing our jeans. Don't you? When Levi Strauss made his first pair of jeans, it was a pretty common problem for the seams of the trousers to tear due to the stress being put on them by the workmen and miners who wore them. These pins called 'rivets' just exist to strengthen the trousers at the most conspicuous spots. You know that little pocket on your jeans, the one that doesn't really function as a pocket due to its tiny size?

That little pouch has had several titles throughout the years including, frontier pocket, coin pocket, match pocket and ticket pocket. Back in the 1800s, cowboys used to wear their watches on chains and kept them in their waistcoats. To keep them from getting broken, Levis introduced this **small pocket** where they could keep their watch. And the design stuck ever since!

### MANHOLE COVER



Ever spared a thought about why manholes are shaped circular? who cares as long as you don't fall into one, right?! Actually a round manhole cover cannot fall through its circular opening, whereas a square manhole cover could fall in if it were inserted diagonally in the hole. Circular covers don't need to be rotated or precisely aligned when placing them on the opening. It's all related to a geometrical figure known as Reuleaux figures - shapes which have a constant width around them.

Any Reuleaux figure can be used as a manhole cover without worrying about the lid falling into the hole. Circle can be considered a Reuleaux polygon with infinite sides. Some other reasons are:

Round tubes are the strongest shape against the compression of the earth around them, so the cover of the tube would naturally be round as well, it's easier to dig a circular hole, round castings are much easier to manufacture using a lathe.

### LOOP ON THE BACK OF SHIRTS



The little loops on the back of brand name shirts have an interesting backstory. They were first used by sailors in the navy who didn't have wardrobes and so sewed tiny fabric loops to their shirts so they could be hung on a hook in the wall. They then became popular with the male population of Ivy League colleges back in the 1960's when college students preferred wearing dress shirts to college. Clothing companies started adding these loops to shirts so that they could be hung in the locker room without being wrinkled.

Known as 'Locker Loops', these quickly became a symbol of fashion. Today wardrobes and cloth hangers have rendered these loops obsolete but there is another interesting story about their use in the past. College students would use them as an indicator of their relationship status. Men used to cut off the loops when in a relationship and the absence of the loop was a sure sign that the man was taken.

### KING OF HEARTS



Every one of us is aware of the deck of cards and its different suits. But take a close look on the cards and you will notice that the king of hearts from among all seems to be stabbing himself in the head. He also does not have a moustache which is strange as all the other 3 kings have them. Well, Modern playing cards are French in origin. For the purpose of mass production, the earliest cards were printed using woodblocks.

Disfiguring occurred over the centuries as unskilled the makers distorted the origin designs. Among the many distortions that took effect, the King of Hearts not only lost his moustache, but also direction of his sword gradually sloped from an upright and vertical position to a more horizontal direction pointing behind his head, commonly misinterpreted as a "suicidal" king.





# INSIGHT

## The Time of Our Lives

Have you ever wondered what it would be like when we grow old? Would we too nag our younger lot with stories about 'How our time was so different'? Would we imitate our grandpa's favourite line - "You know, in our times..."? But did it strike you, that our Grannies and Grandpas usually tend to talk more about their youth and have vivid stories of their young age to share? Well, that's what the theory of Reminiscence Bump talks about!

Reminiscence Bump is the tendency for older adults to have increased recollection of events that occur during their adolescence and early adulthood. In 1990, Peter Martin of the University of Georgia and Michael Smyer of Penn State asked 78 middle-aged and older adults to reflect on their lives. It was found that people tended to remember events from their twenties and early thirties most vividly and significantly.

So this month, Insight went around asking older people about their memories from this golden period of their life. And here's what they said -

-Sara Chavan, FYBA

## IN CONVERSATION WITH OUR SUNSET PEOPLE

1. Kusuma Prabhu, 77 years old

"I was assigned the duty of taking care of my little brothers and sisters when I entered my teens as I was the eldest. The time after school was spent attending an advanced Hindi class (due to my love for the language) with my friends, and after returning home, I had to look after my siblings. Our only source of entertainment back then was the radio in our maternal uncle's bedroom. However, he was miserly when it came to inviting everybody over to listen to it!"

2. Neeta Padmakar Dharne, 67 years old

"I started developing an interest in politics during my college days and later on entered the field. I went on to become the corporator of my area. I was good at sports and was a state champion. My memories post my college days, are the strongest."

3. Sunita Harmalkar, 77 years old

"When I was 14, I was told to live with some relatives because my family could no longer support my siblings and me. However, the relatives refused to let me just stay at home and work. I could cook well at this point, but they made me get an education. I learnt that if we get educated, we can get a better lifestyle. At that time, there were no fights between people of different religions. We were never scared of going out, we knew we would be safe. But today I can't be assured of that."

4. Shyamsundar Sanghai, 75 years old

"During my time, education didn't matter much, and the preference was given to meeting ends. I used to help my father at his shop when I was in school. My school was far from my house, about 10 kms. So sometimes I would go on a camel, and occasionally on foot. But never did I miss a day. Praised for my hard work and sincerity by my teachers, I was motivated to continue my studies. I never played with boys of my age and had never been good at sports anyway. My vividest memories are the fondest ones of growing up in Alwar - my schooldays. The carefree days of innocence mingled with my joy for studying. It was a privilege back then to study."

5. Shaila Madhukar Bhalerao, 65 years old

"After 7th, I dropped out of school and helped with the household chores and at the age of 17, I was married off to a guy ten years older than me. At the age of 22, I had my first child and my third child at 26. I had no power in the house because my mother-in-law was in charge but I was not harmed by words or by any actions. I remember having to prepare meals for 10 to 15 people alone."

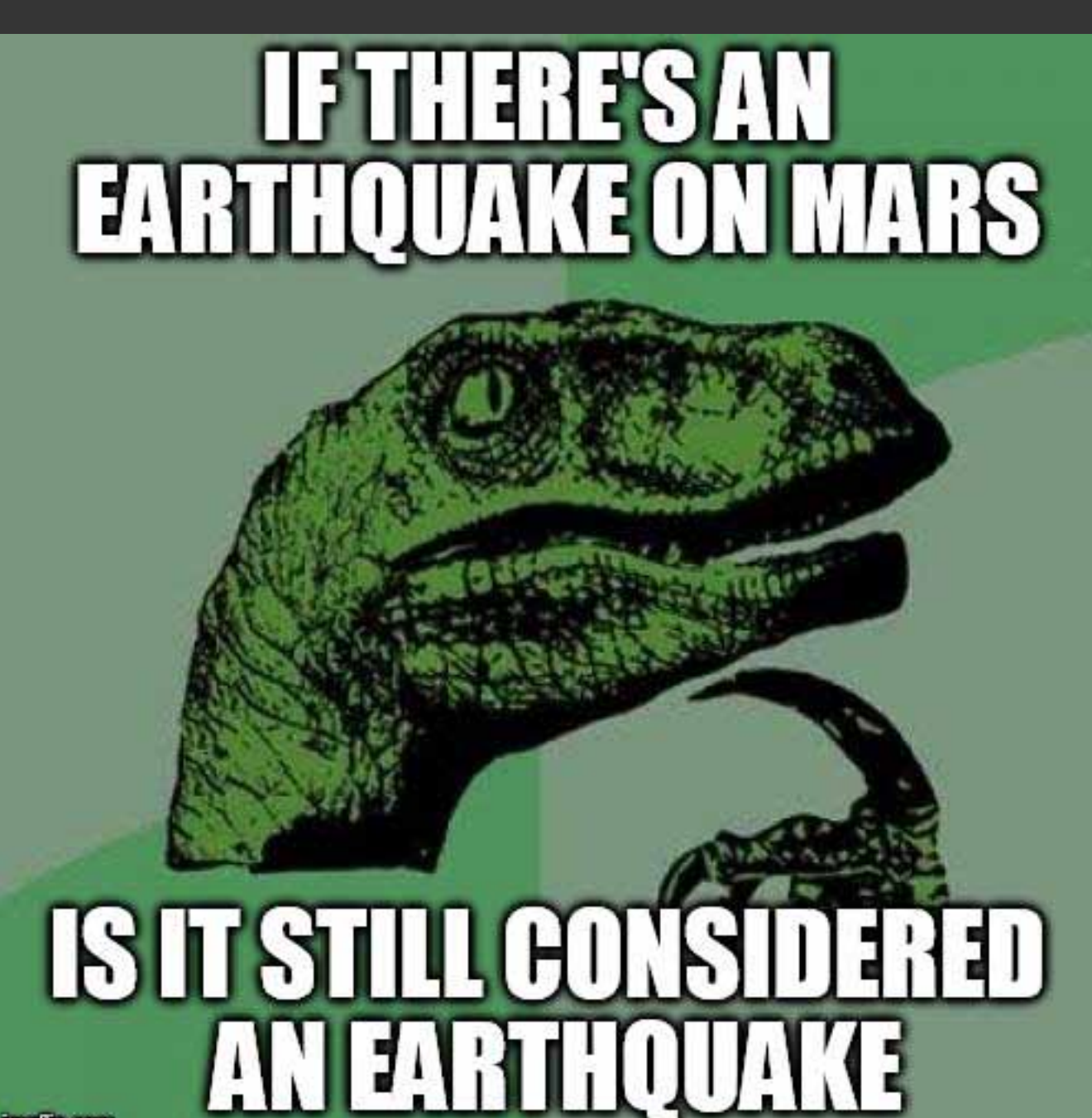
### What will we carry UP the memory lane?

Further research on the reminiscence bump found a lifelong preference for music from this period of life. Taking this thought further, Insight has decided to put together a list of memes, movies and music that we will carry forward into our old age.

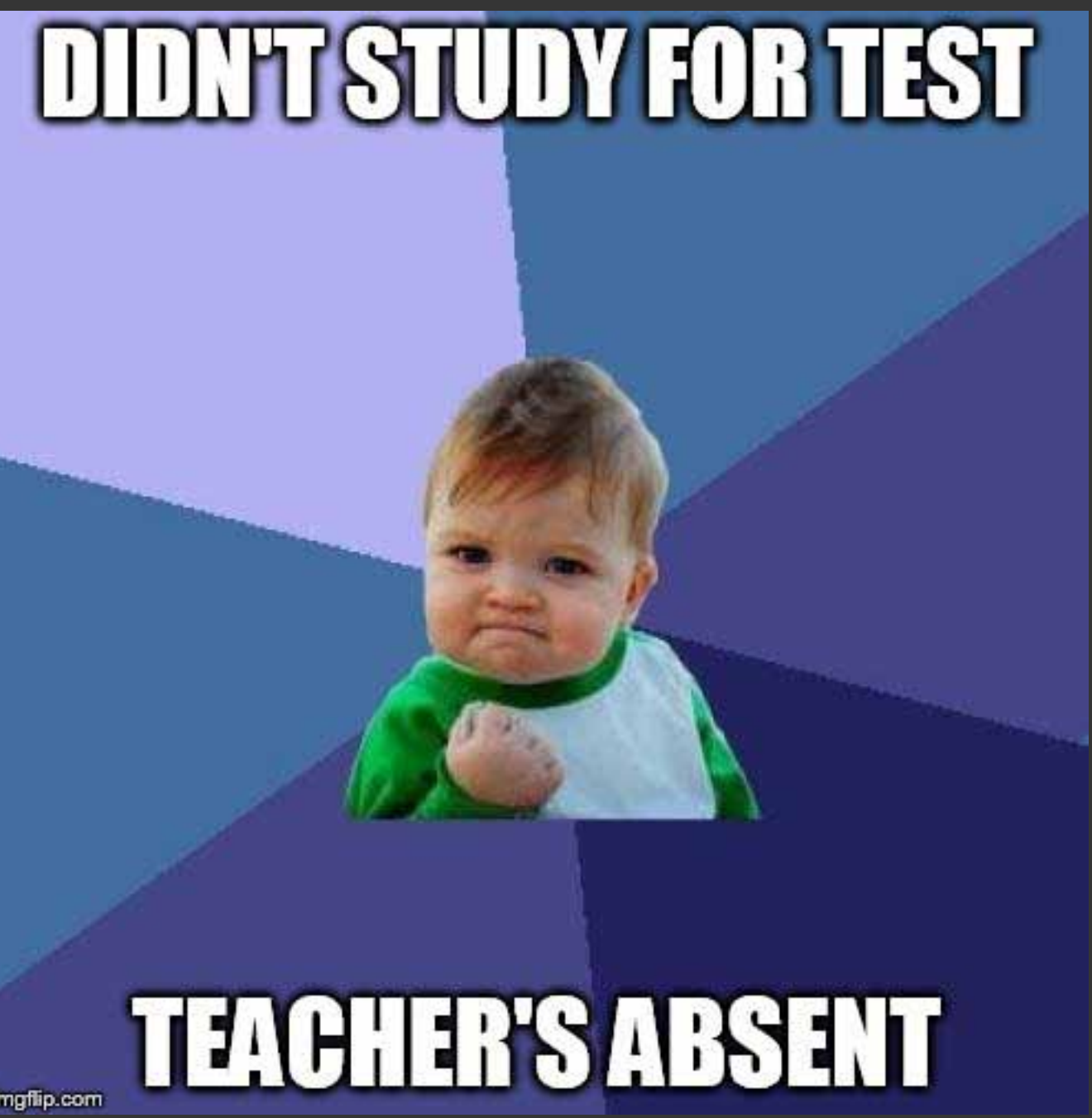
## Memes

Enter the 21st century, and the 90s kids are gorging on a healthy diet of memes. Meme (n); an image, video, piece of text etc. typically of humorous nature, that is copied and spread rapidly by internet users, often with slight variations. Here are some of the most popular ones:

1. This philoraptor meme, an image of a velociraptor, the smartest amongst the dinosaurs, runs your thoughts wild by asking some profound questions.



2. Haven't studied for an exam? Life has been throwing curveballs at you lately? Don't worry! The success kid is going to be there to motivate you through everything.

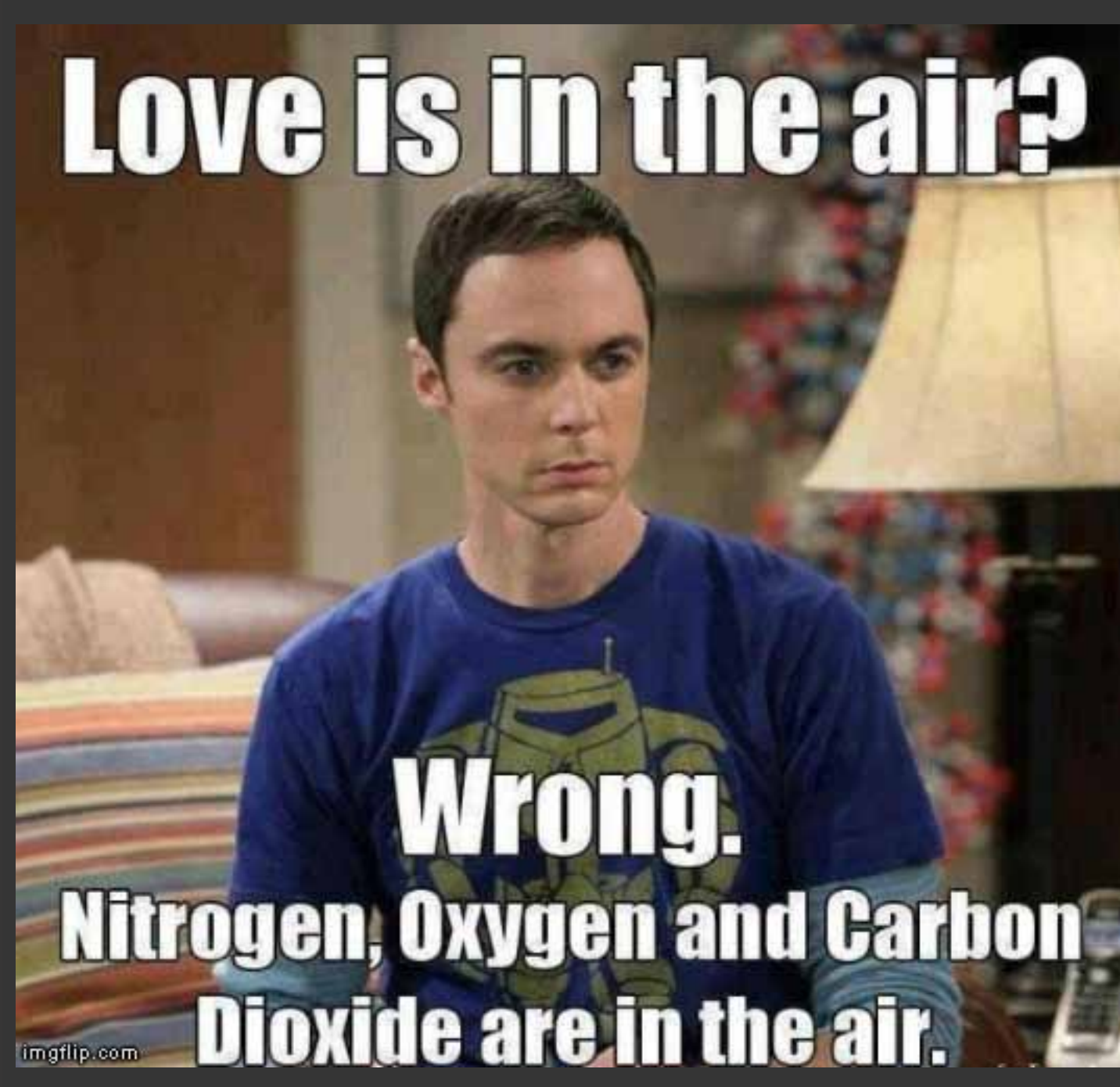


3. The US Presidential elections of 2016 will be remembered for two reasons - the scandals and the equally scandalous memes. This Donald Trump meme addressed to Barack Obama is just one of them.



-Himani Joshi, SYBA

4. Come Valentine's Day and this Sheldon's quote is everywhere. Genuinely soothing for the single souls out there!



5. If you want to know what the millennials prefer, just Google the 'Drake meme' and you will know. It even has different versions of it including Irrfan Khan's!



## MUSIC

While the older generation sighs, shakes their head at today's music, we have our fair share of songs that we take pride in and that'll stay with us forever.

1. The soft, romantic Tumse Hi from the movie Jab We Met makes us all go mushy, longing to experience and celebrate the wonderful feeling of being in love.

2. No party will ever be fun without dancing to the groovy and zingy 'Zingat' that makes even those who don't seem to have one dancing bone in their body, shake a leg.

3. And, we will always remember the signature dance move from the song Lean On.

4. Despacito with its latino beats

makes us try our best to keep up with the Spanish lyrics. One can't help but try to sing the song because of how catchy it is. And, as always, a playlist cannot be complete without a song of heartbreak. Channa Mereya has captured the beauty even in unrequited love with its soulful music.

-Tanvi Padia, FYBA

## MOVIES

These hand-picked movies about youth will provide an inexhaustible source of memories and bring back emotions that we experienced when we saw them for the first time.

1. ZNMD aka Zindagi Na Milegi Dobara: A beautiful film that depicts the lives of three friends and how a road trip helps them bridge gaps in their relationships and realise the importance of cherishing each fleeting moment of their youth. It tells us everything we need to know about 'Seizing the day'.

2. 3 idiots: Every student's delight, as it speaks of the different pressures emphasized on, humorously. It emphasizes on following your heart's desire and not bowing down to the rigidity of the Indian Education system.

3. Rang de Basanti: For a movie with a message of patriotism, Rang de Basanti does a great job in portraying the same through the lives of a bunch of college students. It reflects the power of the youth and all that it can do for the progress of the country.

Furthermore, it tells us to question what really is patriotism.

4. YJHD aka Yeh Jawaani Hai Deewani: About the youth and for the youth, this movie has worked its magic in convincing today's generation about how vital these growing years are. It focuses primarily on the transformation of a shy girl into a flamboyant girl who falls in love and goes on to address various issues today's youth face. -Neha Nayak, FYBSC

What does it mean, if as a generation, every time October rolls around, without fail, we start sharing 'time to wake up Billie Joe Armstrong' on our timelines? Or that, we all remember the first time we got a phone or fell in 'love'? It means that these are the memories, the ones we made from high school, the ones we're making now and the ones we'll make for a decade more;

these are the ones that will stay with us forever. We will stare long and hard at the sky in the latter half of this century and we'll remember the stories from today before any other. So why not make these memories beautiful?

Take a moment to think - life is a constant battle against time. And we can either let time transport us to a

future we dislike and a past we don't want to look back on, or we can seize the moment we have right now. That can love each passing second so that not only do we have a future we worked for, but also a past we enjoy reminiscing.

Breathe, carpe diem and make your future self proud. -Saeed Patkar, TYBA





# OP-ED

## MOOCH IT UP!

Hello Readers!  
It's 'MOVEMBER', and we want to support this movement by highlighting the issues faced by men. To begin with, find out the difference between 'No Shave November' and 'Movember' because guess what! They aren't the same! We asked an ardent supporter to shed light on this massive international movement. And not to forget the men in our lives; we asked them to open up too! Do stereotypes affect them? Are they open about their feelings?

Let's hear it from them!  
As Movember is gaining popularity with each passing year, we got an opportunity to interview the man who raised USD 1800 for the cause, Mr Amal Vartak. As he rightly says, "With a great moustache, comes great responsibility". Let's read how he used his moustache to support the cause.

On 26th November we have a Movember Run at Pune. The ticket sales from the Marathon are used for Male health initiatives. Many associated Indians brands host online contests to throw light on the issue. I'd like to thank the students of Ruia College for writing about this topic. It will help raise awareness amongst the students, who'll also speak to elders.

4) How did you manage to raise such a huge amount in the past few years?  
Back in 2012, I was working with a Canadian organisation and was able to generate more donations considering many of them were already aware. Since the movement is nascent in India, it's difficult to raise funds, but it's not impossible. I make the most of every opportunity to spread the word, be it face-to-face or online, and encourage people to donate.

5) Are there any of your specific experiences with the movement that you'd like to mention?  
Initially 'The Mooch' invited giggles, but it was usually followed by 'why a mooch?' And I would say, it's our ribbon like the pink ribbon that denotes Breast cancer

9) In what ways do you think women can contribute to the movement?  
Women play a huge role in the movement. MoSistas participate by sporting a Moustache on their fingernails, carrying a Movember mobile cover, some wear Mooch earrings to show their support. They also share posts on Facebook talking about the preventive checks to be conducted. My message to the women is - You don't have to be a man to care about Men's health. Encourage the men you know to get an annual screening done.

10) What are your plans to make this movement grow in India?  
Movember will continue to grow. Social Media today is paramount; a lot of health awareness will be taken up through the online channels for maximum reach. I urge everyone to get this across as early diagnosis is the key.

## -RELEARNING MANHOOD

Did you ever sit beside your father after a tiring day and ask him, 'How are you feeling today?', or ask your brother what

1) Can you brief us on how the 'Movember Foundation' works and how are the funds used?  
Movember is the only charity tackling men's health globally, year-round and works towards addressing physical: prostate and testicular cancer and mental health issues faced by men. Over the last 14 years, the foundation has raised USD 769 million. These donations allow Movember to raise awareness, invest in men's health initiatives and run Movember each year. During the month of Movember, men sport moustaches and create awareness about prostate and testicular cancer, and some even donate. Each MoBro, as we're called, has a profile page on [movember.com](http://movember.com)

2) How did you happen to know about 'Movember' and what convinced you to join it?  
Back in 2012, one of my Canadian friends introduced the Movember Foundation to me. It's emphasis on prostate and testicular cancer got my attention. My male acquaintances have their annual

awareness. I recommend checking for irregularities in testicles, prostate screening or even a PSA checkup at least once every year, if above 50 years of age.

6) How do you think, we can keep the movement alive if men just start to hop on the bandwagon without knowing the purpose?  
Movember is a not a fashion statement but a movement with a vision. Over the years, as Movember events increase, it'll lead to more support and awareness, if not. On a lighter side, Educational Institutions and Corporates can organise a 'Movember day' which could involve health-related quizzes.

7) Did work protocols or personal issues pose any problems for you in sporting a moustache?  
I haven't faced any problems at work during my past six years, but on a personal front, sporting a Mooch can be ticklish at times.

8) Moustache has been accepted as a sign of being 'Macho', followed by the other stereotypes. How do you think

he always wanted to do? It isn't hard to guess that it'll be followed by an awkward silence and you'll probably be dismissed with 'I am busy' or 'What's up with you today?'

We were wondering what makes it more difficult for men to vocalise the words 'I am not okay' because we were so not okay with accepting that 'men just aren't good talkers'. We weren't astonished to receive the 'this is awkward' smiley from most of them. Reality is always far away from the ideals represented by the verb 'should'. Most men believe that men and women alike should be able to express all kinds of emotions and that men 'should' not have to pretend to be strong. Some admit that anger and positive emotions are more likely to be acceptable in the society. Amidst the 'shoulds' we sensed the frustration that was glaring back at us, and we were taken aback by their honest replies on having felt vulnerable at some point in life. Along with the freedom they get, men acknowledge that they are bound and crushed under the societal expectations. And do their tears glands swell up, when

checkups for lifestyle diseases, but not many get a screening done for prostate cancer. This speaks volumes about the awareness levels in India.

I'm usually cleanly shaven during the year with an occasional French Beard. However, during Movember when friends and colleagues laugh and smirk looking at my Moustache, I take it as a conversation starter to talk about the issue. Also, depending on the person, I speak about how depression can lead to suicidal tendencies and how crucial it is to speak and confide in someone.

3) What do you recommend to improve the very little awareness we have about Movember in India?  
Although well known globally, it has just started to pick up the pace in India. Hopefully, it'll spread more rapidly every year; thanks to the attention it has been drawing from the media. Every year, MoBros and MoSistas (the women supporters) come together to celebrate Movember by hosting international MoEvents like dinners, movies, games and raising funds.

'Movember' will help in raising awareness about Men's suicide? Movember is also about Male Mental Health and Suicide Prevention. Many men find it difficult to share their problems and try to remain 'strong and silent', despite the detrimental effect this can have. As a part of our awareness, we talk about the importance of being proactive about your mental health, understanding risk factors and symptoms, and seeking help by staying connected with your friends and family. I see the Mooch, which is stereotyped as Macho, as a sign that says 'I care- You can talk to me!'



the burden to put up a face is insurmountable? We were overwhelmed when we received numerous 'yes' replies and 'We are humans too!'. But we were saddened to hear that most can only cry them to sleep. Stereotypes keep them away from opening up to someone, but we're glad there are some who have dared to step out of that shell of 'Men don't cry' and 'I am fine' and thus have experienced the healing quality of crying it out. These are the men who've at least started admitting when something is eating them.

To us, it means the change that is coming out, by gradually defying the long outdated societal conventions. We can see the uneasiness that dominates you when talking about your feelings, and probably discussing periods with a female doesn't even come close. But you're trying, and we're proud of you. 'So dear men, keep it up and we're here for you!'

No Shave November and Movember are underway, and while both are month-long campaigns that involve growing out your facial hair to raise awareness of men's health issues, they are not the same. Men! The decision to shave or to not shave is a crucial one, so before you let go off the razor and type 'November: No Shave' in your calendar, let's get to know the difference between them.

### NO SHAVE NOVEMBER

- WHAT?  
Letting your beard grow without trimming or grooming it.
- WHY?  
To raise awareness about cancer by embracing your hair.
- WHO STARTED IT?  
8 siblings who lost their father in a battle with colon cancer in November of 2007.
- RULES:  
1) At the beginning of the month, give yourself a clean-shaven look.  
2) Set down all your grooming products & divert the funds to the foundation.

### MOVEMBER

- Growing and grooming a moustache for 30 days and trimming the beard.
- To raise awareness about issues such as prostate and testicular cancer and mental health in men.
- The Movember Foundation started in 2003 in Melbourne, Australia.
- Begin by shaving off all of your facial hair. Continually shaving areas around your moustache and let just the moustache continue to grow.
- So, all the men out there it's time you put away your razor for a month and embrace your facial hair for yourself and all the men across the world.





# OPEN FORUM

## DREAM ON

Riddhi Jadye, Sayli Mayekar

How many of us have woken up and immediately thought about the dream we dreamt? Or gone about our day, finished the tasks we had to do (not without procrastinating though! Let's be realistic here), and out of the blue, remembered that we had dreamt something and then spent too much time either trying to recall the dream or interpret its meaning?

Dreams mainly occur in the REM stage of sleep. We tend to remember our dream if we are awakened during the REM phase. For 90 minutes to two hours or more every night, every single person on Earth dreams. Dreams are like letters from our unconscious mind. The scientific study of Dreams is called Oneirology.

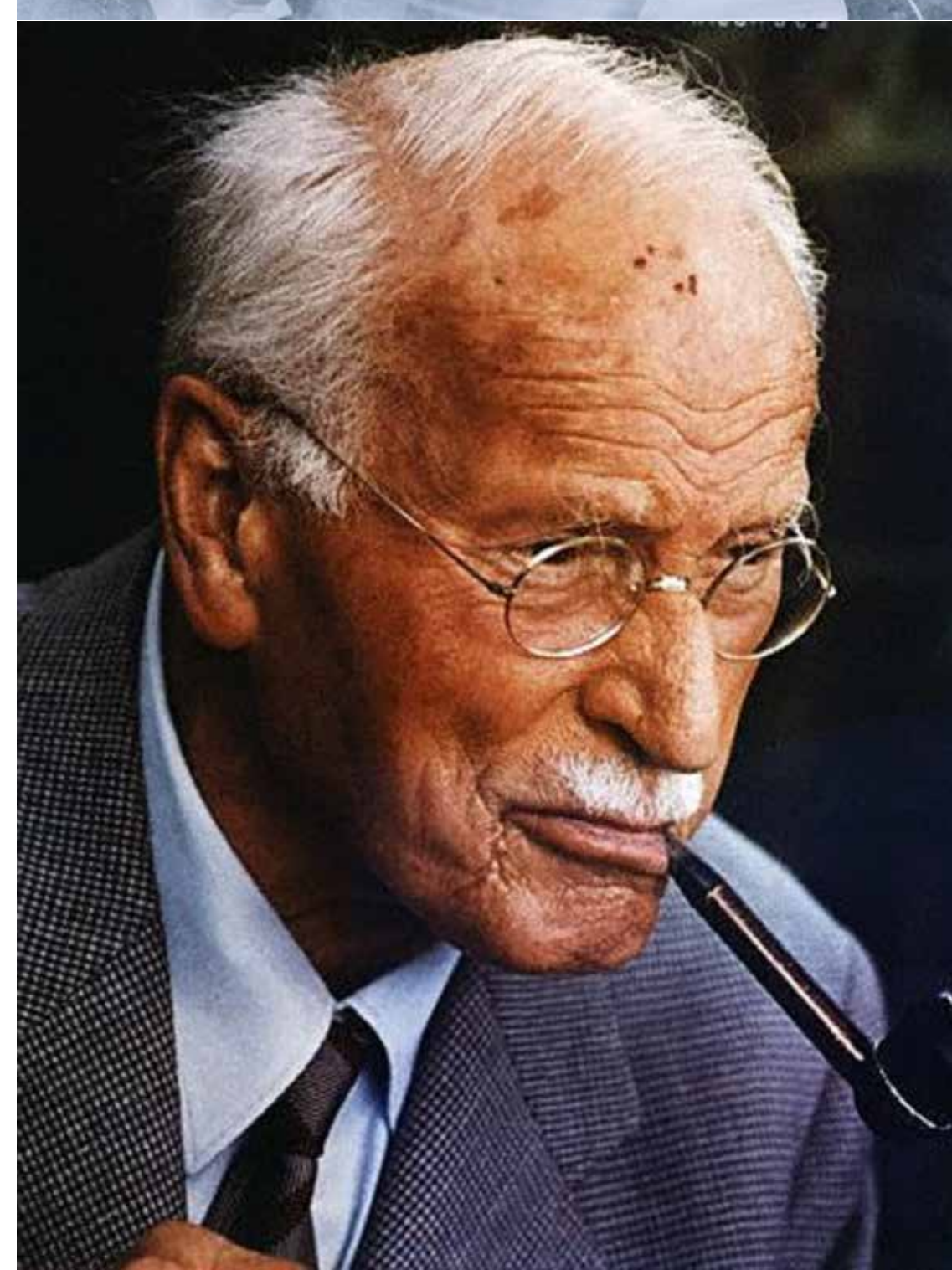
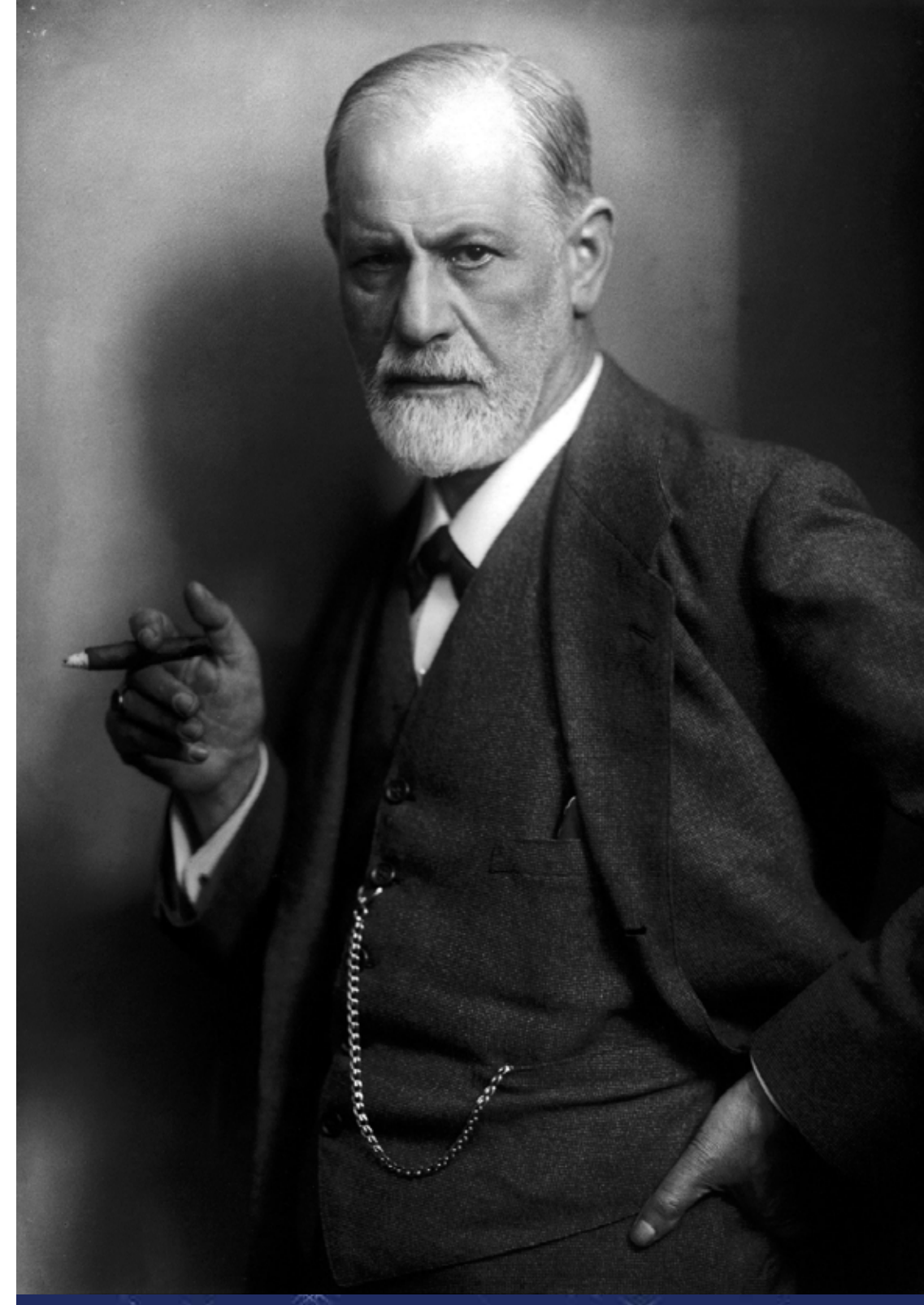
### Dream Interpretation:

Various theories have offered explanation regarding the meaning and purpose of dreams.

In his book, *The Interpretation of Dreams*, Psychoanalyst Dr. Sigmund Freud has given his theory about the unconscious with respect to dream interpretation. In Freud's view, dreams are the attempts by the unconscious mind to resolve some sort of conflict. He argued that dreams are a form of wish-fulfillment. According to Freud, dreams are compromises which ensure that sleep is not interrupted. He called them "a disguised fulfillment of repressed wishes." These unconscious desires, in the view of Freud, are often related to early childhood experiences.

Neo-Freudian, Carl Jung added to Freud's ideas of Dream analysis. According to Jung, dreams are like messages to the dreamer which she/he should pay attention to for their benefit. He believed that dreams contain certain revelations which may help a person resolve his/her emotional problems or fears.

People experience different types of dreams. They are mostly visual in nature. The visuals generally reflect a person's memories and experiences. Some dreams may include elaborative incidences in completely different worlds that the dreamer may have never experienced before.



### Few common dreams include:

Water comes in many forms, symbolizing the unconscious. Calm and clear pools reflect inner peace and clarity of thought while turbulent and murky waters suggest unease and confusion.

Food is said to symbolize knowledge, energy, or nourishment. It can be a manifestation of idioms like, 'Food for Thought' and reveal that we may be 'hungry' for new information and insights. But of course, it could be just food.

Falling is a common dream symbol. It is related to our anxieties about letting go, losing control or failing after a success. The feeling of falling in a dream is also related to physical exhaustion at times.

Death in a dream suggests fear for change. It can also mean that the person is feeling vulnerable. Death dreams may even occur after losing a loved one.

Images from top to bottom:  
Dr. Sigmund Freud, his book *The Interpretation of Dreams* (book cover), Carl Jung

“ People who are blind by birth do not experience visual dreams but their dreams are related to other senses. ”

### Other forms of dreams could be -

**Nightmares:** They are negative, unpleasant dreams which generally invoke fear related response and may cause anxiety or discomfort in the person. It also causes the person to awaken in a state of distress and inability to go to sleep for a long time.

**Daydreaming:** It is a type of visual fantasy usually associated with pleasant thoughts while the person is awake. While daydreaming the person is temporarily detached from reality.

**Lucid Dreaming:** It is a state in which the person is aware that she/he is dreaming. The dreamer may also be able to have some control over the contents of the dream.

Dreams might be different from reality, but it can bring out the creativity in oneself. Our dreams sometimes also inspire us to do something unique and better in our lives, as someone once rightly said - "The future belongs to those who believe in the beauty of their dreams."

## THE FINAL WORDict

### The Long and Short of it

Natasha Desai

Grammarians love the English language for being articulate and dramatic. There are always new words and ways to twist a sentence into an expressive artwork. The sheer superfluity of words brings an added buzz to any read. It's also fun to watch peers squirm when your sentence goes flying over their heads. People who take pride in their eloquence are mildly sadistic that way. Fluent individuals have always held a dramatic sway over conversations - at least until the 21st century, when the age of typing and texts threw the most gigantic spanner in the works of grammar - short forms. (The irony is appreciated. The slang is not.)

What started out as a time-saver on messaging has turned into an original dialect? It isn't possible to open a social media app without being drowned in a sea of LOLs and IDKs. Trying to find a person who refuses to use short forms is equivalent to the Grail Quest at this point. They get more and more unintelligible with the passing days. It was fine when the only short forms floating around were LOL, LMAO, and ROFL, but it's escalated to words like NGL and AFK. A lot of posts on the Internet are unreadable unless the reader knows what the abbreviations mean. This alone could have been an easy fix, but unfortunately, these short forms have invaded verbal communications as well.

It's unequivocal that these acronyms affect a person's speech to such an extent that the way he expresses and presents himself is degraded. When it comes to speaking or writing professionally, people need to avoid these habits. Preserving the integrity of the language, and speaking it the way it should be spoken, is necessary for the future generations to know how the English language works.

## Book Review : A Christmas Return - by Anne Perry (New York Times Bestselling Author)

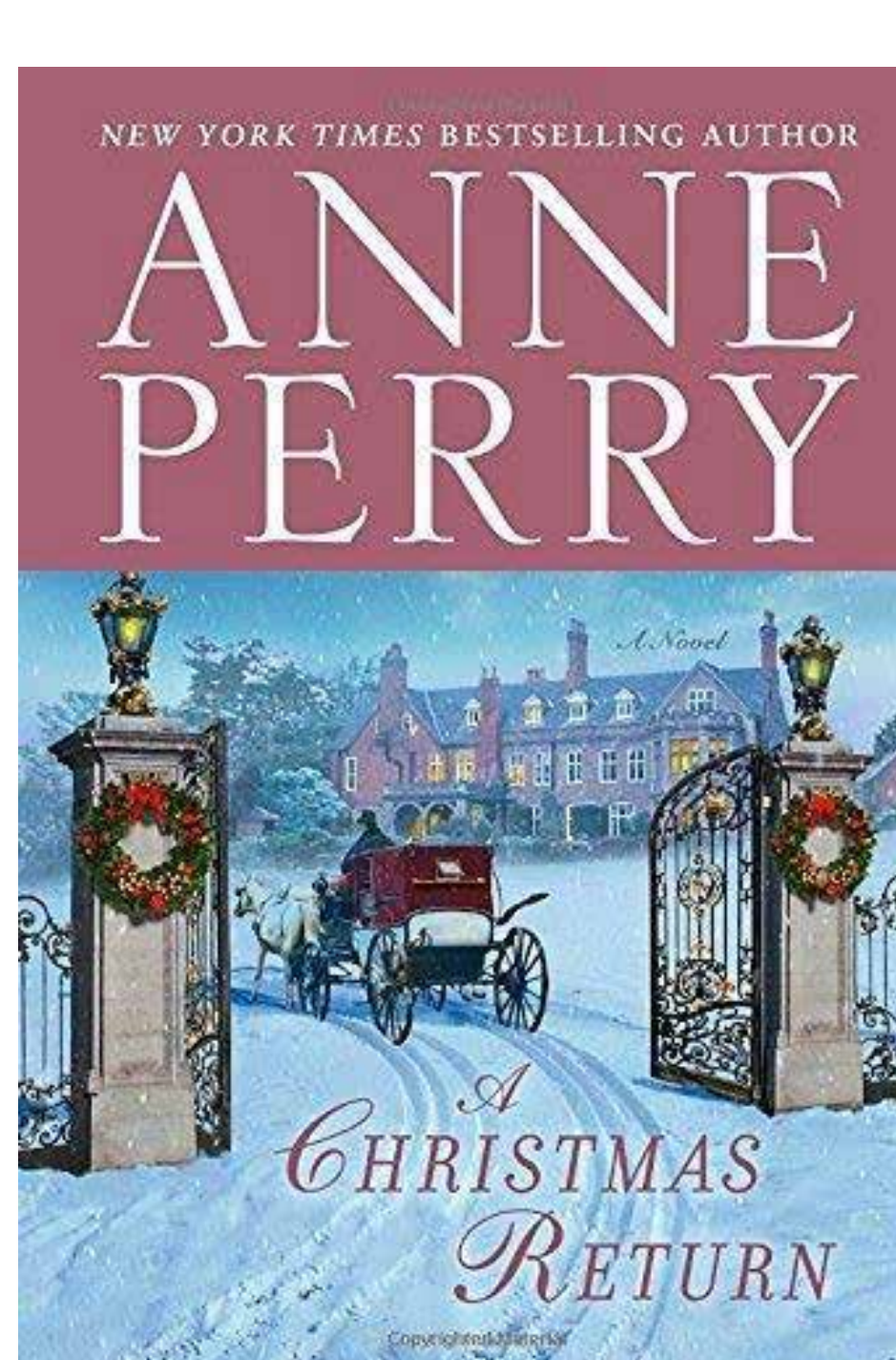
Ishita Nirbhavne

Good news for everyone nervously planning a trip home for the holidays; it can't possibly be as fraught as Mariah Ellison's visit to Rowena Wesley to rescue an old friend from an ancient scandal that was recently revived.

Twenty years ago, a Haslemere doctor, Dr. Owen Durward was accused of abusing and murdering Christina Abbott, a 14-year-old who was abducted on her way to visit a friend. He retained Cullen Wesley, Rowena's husband, to defend him. But something made Cullen change his mind about acting on Durward's defense, and the night he withdrew from the case, he was killed when a bookcase fell on him and the ornamental cannonball on top of the bookcase crushed his skull. Now that Durward, who plans to marry a wealthy widow, has returned to Haslemere to clear his name, Peter

Wesley, Cullen and Rowena's grandson, sends a plea to his grandmother's old friend to help her fight back against the doctor's accusations. Just in case Mariah doesn't think the case is urgent enough, Peter also sends her a Christmas pudding with a duplicating cannonball nestled inside. Arriving in Haslemere, Mariah finds Rowena, who was at first unwilling to see her, is unable to muster the energy to battle Durward, who has spread the word that Cullen withdrew when he learned that Rowena had begun an affair with Durward. But Mariah has never backed down from a fight, and soon she linked Durward to an even older outrage in nearby Brocklehurst. Armed with her potent discovery, she returns to Haslemere planning to confront Durward in the most public forum imaginable: the village Christmas party.

Full of suspense and surprises, it may be hard to swallow the injunction to seasonal revenge. Happy Holidays indeed!



Images right to left: Anne Perry, her book *A Christmas Return*



# TECH TRICKED

## House of the future

When you're not home, nagging little doubts can start to crowd your mind. Did I turn the coffee maker off? Did I set the security alarms? Are the kids doing their homework or watching television? Is the gas stove still on? Such thoughts can plague our minds and leave us flustered throughout the rest of the day. In today's day and age, you could quiet all of these worries with a quick glance at your smartphone or tablet. You can connect the devices and appliances in your home so they can communicate with each other and with you. Any device in your home that uses electricity can be put on your home network and at your command. Whether you give that command by voice, remote control, tablet or smartphone, the home reacts. Most applications are related to lighting, home security, home theater and entertainment.

What used to be a quirky industry that churned out hard-to-use and frilly products is finally maturing into a full-blown consumer trend. Instead of start-up companies, more established tech organizations are launching new smart home products. Sales of automation systems could grow to around \$9.5 billion by 2015. By 2017, that number could balloon to \$44 billion.

Much of this is due to the jaw-dropping success of smartphones and tablet computers. These ultra-portable computers are everywhere, and their constant internet connections mean that they can be configured to control countless other online devices.

The genesis of many smart home products was 1975, when a company in Scotland developed X10. X10 allows compatible products to talk to each other over the already existing electrical wires of a home. All the appliances and devices are receivers, and the means of controlling the system, such as remote controls or keypads, are transmitters. If you want to turn off a lamp in another room, the transmitter will issue a message in numerical code that includes the following

- 1) An alert to the system that it's issuing a command
- 2) An identifying unit number for the device that should receive the command
- 3) A code that contains the actual command, such as "turn off."

Smart home technology promises tremendous benefits for elderly people living alone. A smart home could notify the resident when it's time to take medicine, alert the hospital if the resident falls and track how much the resident is eating. If an elderly person is a little forgetful, the smart home could perform tasks such as shutting off the water before a tub overflows. Amazon has offered the latest smart home product called Alexa. It looks drastically different from the original smart home system X10. Buttons have been replaced by voice commands. "Alexa, turn on the lights" is one such command. Alexa has brought us one more step towards making our homes function like a James Bond villain's lair.



- Atharva Bidwalkar

## The Virtual Assistant

Since the inception of mobile technology and automation, the world and the technology driving this world is advancing rapidly. With this change in technology, there's a development of a virtual application aka "BOT" which actually makes our day to day work easier. Now your mind may be clouded with 'n' number of questions, right? So, let's answer those questions!

### What is a BOT?

Imagine texting a number to order pizza and having it delivered without ever talking to a real human. That's what bots are all about. A bot is a software that is designed to automate the kind of tasks you would usually do on your own like making a movie reservation, adding an appointment to your calendar or fetching and displaying information. They often live inside messaging apps or are at least designed to look that way and it should feel like you're chatting back and forth as you would with a human.

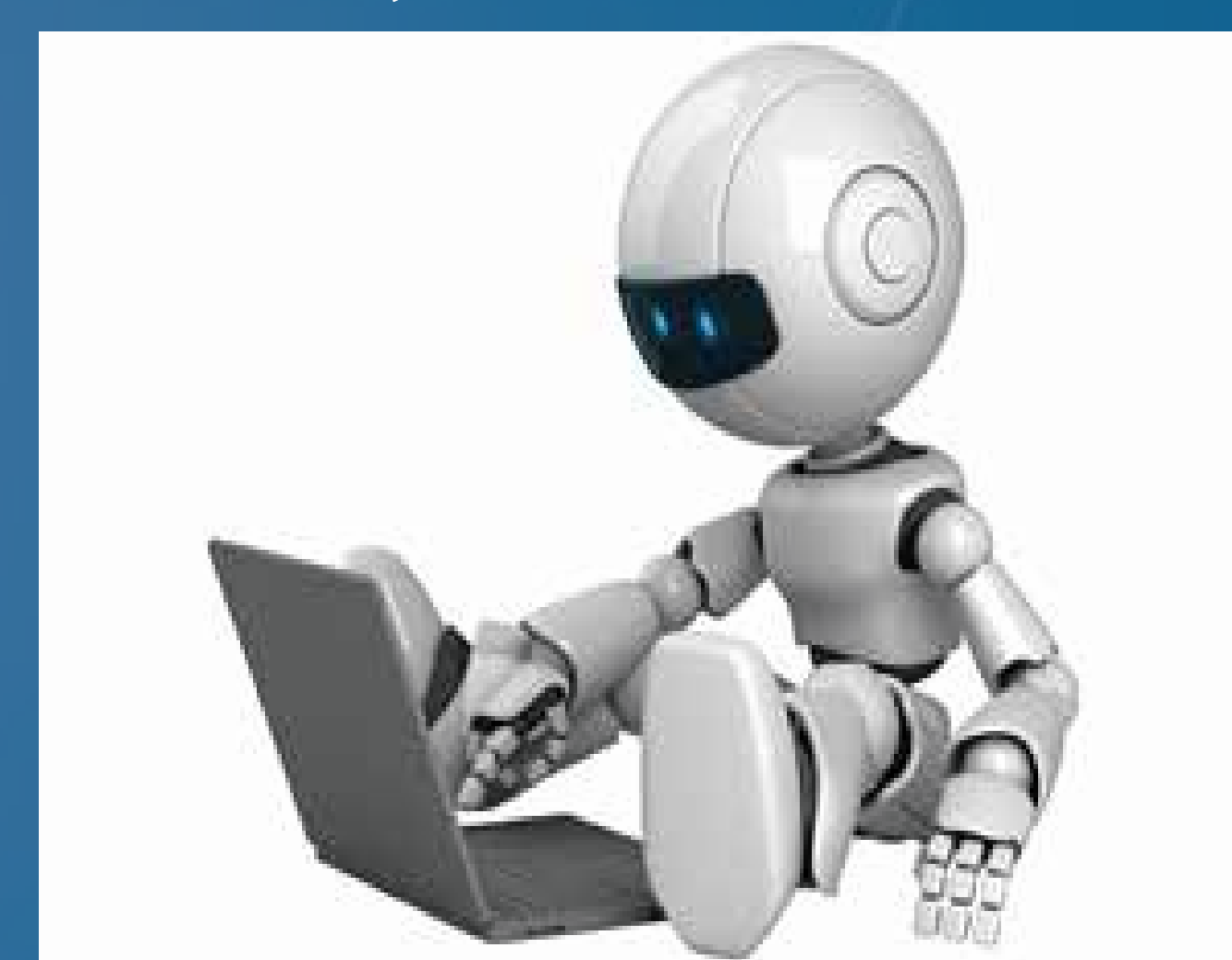
Bots are virtual assistants which can answer questions and help you get things done faster without needing to speak to another human. Let's take an example of Cortana: Cortana is a BOT developed by Microsoft. It is an assistant which helps you solve your problems, answers your queries and gives information that you need. Cortana can set reminders, recognize a natural voice without the requirement for keyboard input and answer questions using information from the Bing search engine

### Where are these Bots?

Bots are everywhere in technology, ranging from malicious bots that come with a virus to search engine spiders that crawl the Internet looking for new web pages to add. Web crawlers are used by search engines to scan websites on a regular basis. Some bots are used to handle a variety of customer service requests which would normally require a telephone call to a human agent. One example: Taco Bell has released a bot that allows you to order and pay for tacos through an automated chat conversation.

### Are bots the future?

Yes and no. Some developers and companies believe that people are tired of apps and would rather use bots. Instead of having many different apps on your phone, you could have one with multiple bots that can help with different tasks. What we're more likely to see in the future are smarter bots at home (like Amazon's Alexa) on our phones and in our car, that will help automate our lives. But anyone who's been fed up with Siri when looking up something, knows we're just not there yet.



- Shubham Borhade

## A Darker Side Of SpaceTech

**Alfonso Cuarón's 'Gravity' was a great piece of work. Not only was it a wonderful experience of outer space but it also depicted one major problem surrounding the Earth. The story follows an accident where a 'cloud of space debris' is formed after a missile strikes a satellite, leaving the astronauts tumbling through space when it hits their shuttle. Now this situation isn't far from reality! And we are indeed surrounded by space debris, a result of our very own space exploration programmes. Ever since humans started launching rockets and other objects into space in the 1950s, orbital space debris has been slowly accumulating above our atmosphere.**

**THE SIZE OF PROBLEM: 29,000 pieces of debris the size of baseball or larger.  
6,70,000 pieces of debris the size of marbles or larger.  
170 million pieces of debris too small to be tracked!**

**WHERE IT COMES FROM: General debris is formed due to dead satellites, upper stages of launching vehicles, bits of discarded leftovers from separation, tiny flecks of paint and even frozen clouds of water. They all remain in orbit high above Earth's atmosphere. Space debris travels at a speed of 28000 km/h. When it crashes into other debris and occasionally even into a functioning spacecraft, it generates more debris. In 2009, a Russian satellite collided with U.S. Iridium commercial satellite, generating more than 2,000 pieces of debris. Last year's SpaceX Falcon 9 explosion proved once again that space tech is far from perfect. For the past 50 years, the major source of all space junk has come from objects that exploded by accident.**

**BACK TO THE EARTH: Debris that returns to Earth often burns in our atmosphere, but some larger objects occasionally reach the ground intact. An average of one piece of space debris has fallen back to Earth each day for the past fifty years.**

- Vighnesh Lokare

## TREND-O-METER

### iPhone X: A brave step towards the future

Apple has taken a rather brave step towards re-imagining the iPhone, amidst a cloud of doubt on how fans will react to a completely new way of using the iPhone. Face ID works and the missing home button is not a problem, as you can add virtual home button on screen. iPhone X is loaded with the coolest features

### Facial recognition

You can register your face with the iPhone X so that it automatically unlocks when you look at it. We've seen this before in phones such as the Galaxy S8, but Apple says its face unlock uses 3-D imagery that's even more secure. It says the new tech can't be fooled by even a professionally made mask of your face, and is more secure than fingerprint locks. So, does it work on identical twins differently?

### Animoji!

This ties into facial recognition but is fun enough that it deserves its own spot on the list. Apple developed new "Animoji" that allow you to create short clips of your own emotions and send them off as emoji friends and family. Maybe you can make a silly face with the dog emoji!



### Brand new cameras

The iPhone X has a 12-megapixel wide-angle lens and a second telephoto lens for zooming. Apple says it offers huge improvements over the cameras we saw in the iPhone 7 Plus, which was the first to offer a telephoto lens. Also, a new front-facing "TrueDepth" camera is capable of taking those fancy portrait shots that debuted on the iPhone 7 Plus, which create a blurred background bokeh effect that looks much more professional.

### Wireless charging

The iPhone X, iPhone 8 and iPhone 8 Plus are the first iPhones to support wireless charging. Qi, the standard Apple chose, is typically very slow. But Apple has the power to bring wireless charging pads everywhere.

### The sharpest display ever on an iPhone

The iPhone X features a colorful OLED display with more than 2 million pixels. That means sharper text for reading, more impressive video playback and more. Better yet, it has a screen that runs from edge to edge so you get a bigger viewing area without having to carry a larger phone.

-Vaishnavi Dabholkar



# SCIENCE OF EVERYTHING

## DRUGS-DISCOVERY AND DEVELOPMENT

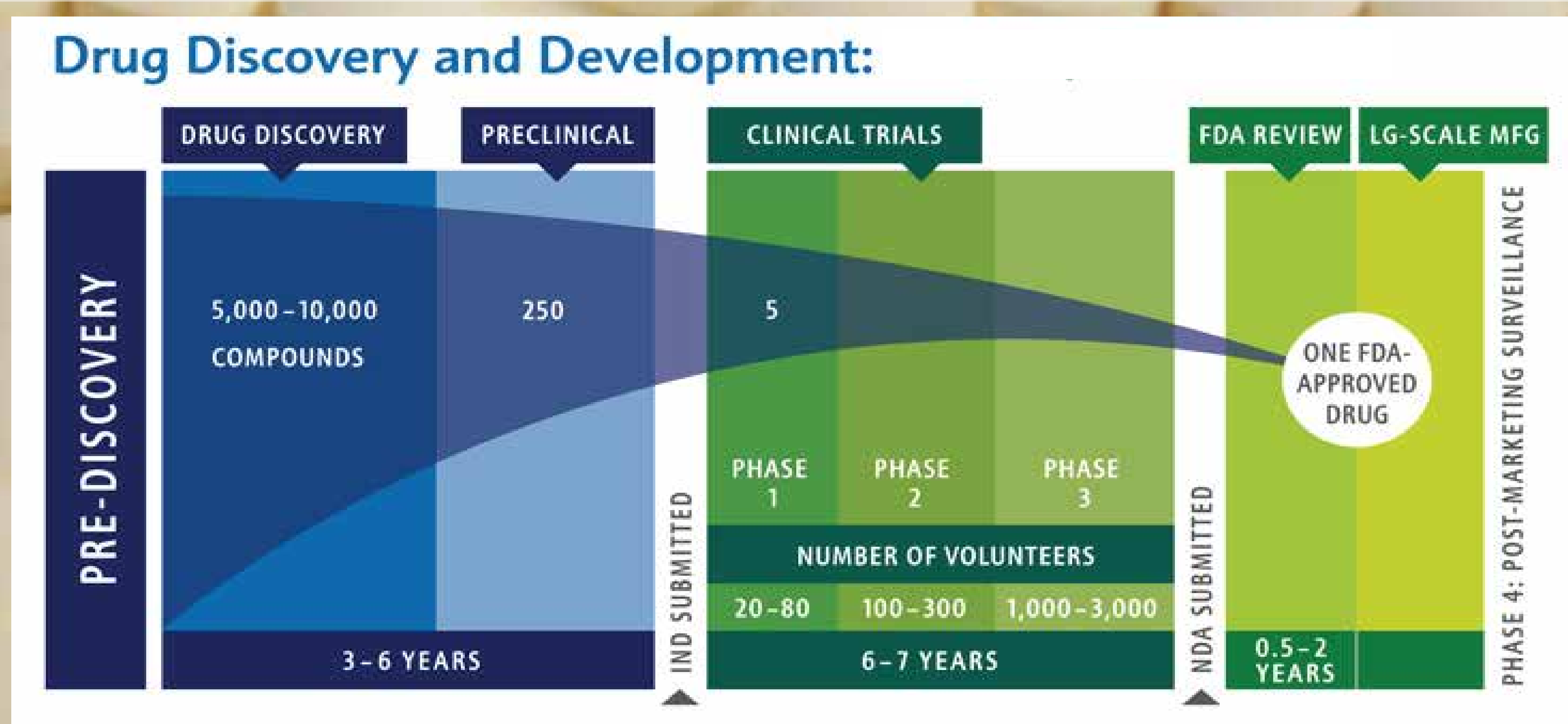
All of us have consumed medicines when we were ill, be it due to fever or some kind of body ache. But have you ever wondered about the origin of any of these medicines? This month, let's take a ride to explore the process of drug discovery and its development. The process of drug discovery is a huge process consisting of multiple steps and processes from the discovery of NCE (new chemical entity) to the selection of Lead compounds. For discovering a new molecule, first the disease is studied in various aspects. Studies at gene and protein levels are carried out. Then by referring to the gene and protein studies, many new molecules are designed by scientists. Thousands of molecules are designed at a time but eventually only one best molecule is selected which is known as the new chemical entity. A new chemical entity is a molecule which has an expected therapeutic activity with minimum or zero toxicity and hence can be used as a drug.

For a molecule to be certified as drug it has to go through many procedures called preclinical and clinical trials. There are many phases to these trials in which toxicology and effective therapeutic activity of the drug is measured using various tests on cell lines, animals and human beings. These tests help to prove that the NCE is non-toxic and is therapeutic.

To check whether the molecule is toxic, preclinical research and trials are conducted. Preclinical research consists of in-vitro and in-vivo studies. In in-vitro studies, the molecule is subjected to cell lines of a specific organ on which the drug is going to act. The reaction on the cell lines are observed. Its toxicity is tested on the cell lines first and then on animals (in-vivo). These animals are selected on the basis of their evolutionary relationship with human beings. Animals having less evolutionary distance are more related. Therefore, such animals are preferred as they exhibit similar mechanism to process the drug in their body. In-vivo studies are usually conducted on animals such as chimpanzees, rats etc.

The next step is to perform clinical trials in which this new molecule is tested on human beings. In this stage, studies such as pharmacokinetics, pharmacodynamics, drug dosing, toxicology, etc. take place. There are 4 phases of clinical trials - in phase 1, tests are performed on healthy human volunteers. From phase 2 onwards, diseased volunteers are studied. Before Phase 4, a 'new drug' application is to be filed at the FDA (Foods and Drugs Administration) for the certification. If the drug molecule has more therapeutic value than its toxicological value, then FDA approves the drug and it is ready to be launched in the market. Phase 4 is after the drug is launched in market for sale. In this phase, as the drug reaches large amount of population, side effects if any, are noted and if the drug is showing harmful effects, then it is drawn out.

Designing a drug, selecting the lead molecules, getting a new chemical entity, qualifying them in clinical trials and getting FDA approval is a huge task and it takes around 15 years or more for a new drug to be marketed. So, the discovery of the drug which you consume was not a two-day process. It takes a lot of patience, capital investment and half a lifetime of the researcher for the existence of a single molecule.



- Dhruv Rathod and Aditi Kulkarni

## THE ORIGINS OF LIFE!

The human mind is extremely inquisitive, and from time immemorial has been asking questions about themselves and their surroundings! One such important and extremely old question is - how did we come into existence? Charles Darwin, the famous British naturalist tried to answer this question partly in his well-known work, titled "On the Origin of Species". He postulated the theory of evolution by natural selection, which explains the gradual development of complex multicellular organisms from simple, unicellular organisms. But, Darwin's theory begins from unicellular aquatic organisms. It does not explain our hypothesis of how that cell came into existence! This is a very fundamental question to Science. From where did life originate? What was the process that led to the development of self-regulating, enclosed, membrane-bound systems, capable of directing various biochemical reactions, selectively and with extreme precision and accuracy? Many theories were prevalent about this. Religion tried to answer it by proposing the theory of Special Creation (which is not discussed here). A few other theories were also proposed by the scientists through the course of history.

Out of them, two theories have withstood the test of time and are prevalent even today! They are discussed below.

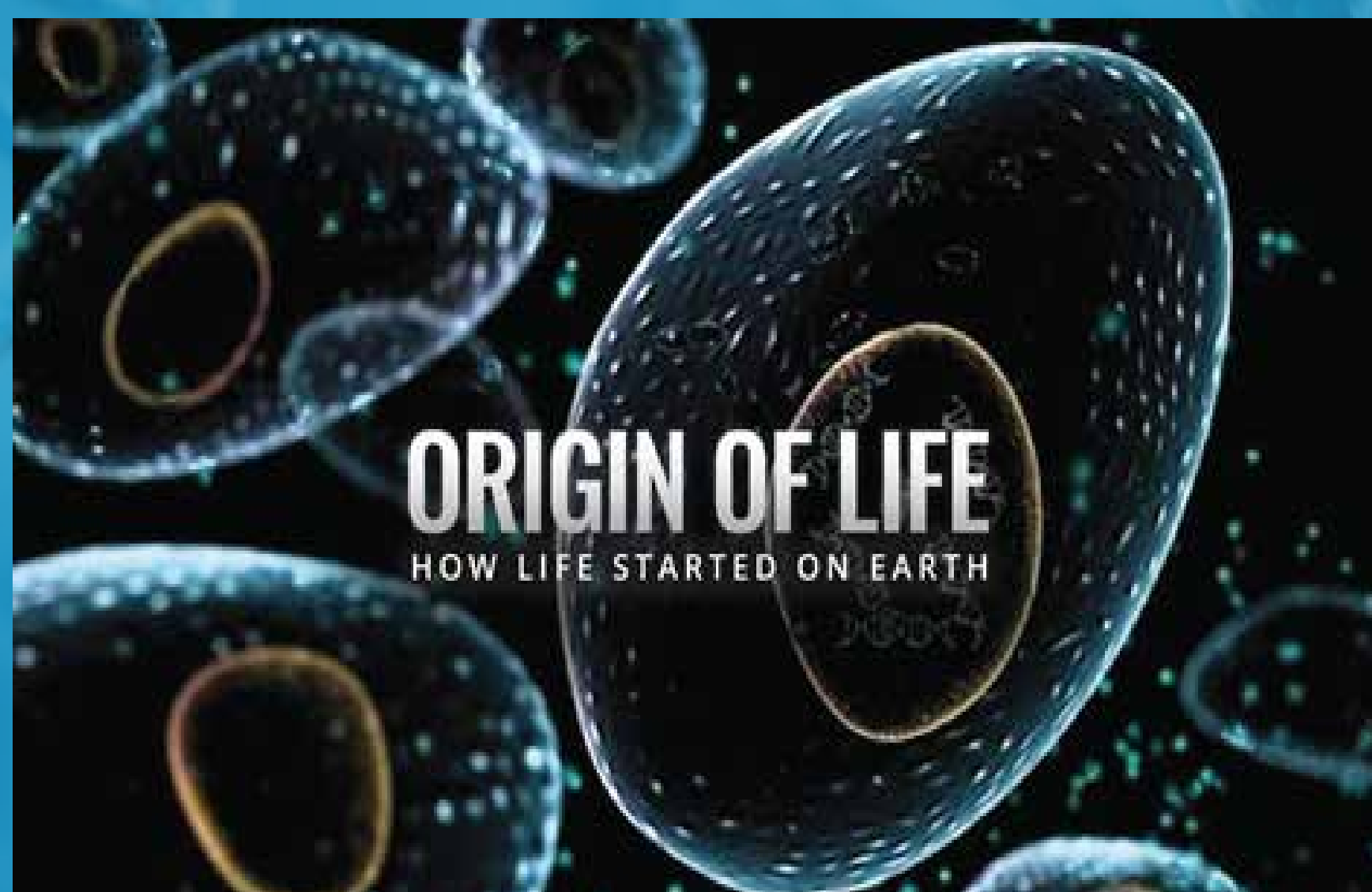
### 1. Cosmozoic Theory:

The theory suggests that life reached Earth from some heavenly source through meteorites. Panspermia (suggested by Arrhenius) consists of spores or seeds and microbes that existed throughout universe, entering the reach of our Earth through meteorites and produced different forms of life. The theory proposes that life did not actually originate on this planet.

### 2. Theory of Abiogenesis, i.e. Biochemical Evolution

In its oldest form, this theory suggests that life evolved from non-living material spontaneously. This was supported by Aristotle too. But this spontaneous generation was disproved by various scientists like Louis Pasteur, Lazzaro Spallanzani, Francesco Redi, etc. But in the later years, a modified version of this theory was proposed. This was a truly revolutionary approach towards answering the question. It suggested that life evolved from non-living components present in the oceans of the primitive Earth. The extreme conditions of primitive Earth led to various reactions between the primitive molecules existing in Earth's oceans. These primitive molecules self-assembled and got organized, leading to the formation of a primitive Cell, or pre-cell! This theory is known as The Chemical Evolution of Life or The Self Assembly Theory for the Origin of Life. It was proposed by Alexander Ivanovich Oparin and J. B. S. Haldane.

Teacher-student duo, Harold Urey and Stanley Miller designed the famous Urey and Miller experiment which provided first concrete proof for the Oparin and Haldane Theory. This is one of the most widely accepted theory and many experiments in today's labs are trying to replicate the conditions of primitive earth and prove this theory. The recent discovery of Diamido-Phosphate fills one more gap in this theory.



-Swara jamdar

## GLOBAL WARMING

There is an urgent need for countries to adopt a universal and global "carbon price" to arrest large scale greenhouse gas emissions. There are discussions about the best methods and incentives to control carbon output and if there should be a 'cap and trade' or tax combined with a voluntary carbon market or an emissions trading scheme to ensure emissions compliance.

As the world's first cap-and-trade program for emissions trading, the European Union's Emissions Trading System (EU ETS) has attracted a lot of attention. The United Nations Framework Convention on Climate Change Conference of the Parties (UNFCCC COP) in Copenhagen ended without resolution on two main negotiating texts from the Ad Hoc Group on Negotiating the Kyoto Protocol (AWG-KP) and the Ad Hoc Working Group on Long-Term Cooperative Action (AWG-LCA).

Renewable Energy Certificates (RECs) are a tradable form of electronic currency and represent the environmental attributes of the power produced from renewable energy projects and are sold separately from commodity electricity.

For individuals or households, this is how it works: firstly, a carbon calculator is used to work out your personal or family carbon footprint based on your personal or family carbon footprint. This footprint is the total of how much carbon dioxide you are releasing into the atmosphere through your activities. The amount of carbon dioxide you emit is then offset by the purchase of Carbon Credits.

Thus, we need to bring the total amount of carbon emissions under control to decrease global warming and its harmful effects.

-Swara jamdar

## CONSEQUENCES OF CLIMATE CHANGE

Global climate change already has observable effects on the environment. Glaciers have shrunk, the ice on rivers and lakes is breaking up earlier, plant and animal ranges have shifted and trees are flowering sooner.

Effects that scientists predicted would result from global climate change are now occurring through loss of sea ice, accelerated sea level rise and longer, much more intense heat waves.

Scientists have high confidence that global temperatures will continue to rise for decades to come, largely due to greenhouse gases produced by human activities. The Intergovernmental Panel on Climate Change (IPCC), which includes more than 1,300 scientists from the United States and other countries, forecasts a temperature rise of 2.5 to 10 degrees Fahrenheit over the next century.

Future expected effects:

- . Change will continue through this century and beyond
- . Temperatures will continue to rise
- . Frost-free season (and growing season) will lengthen
- . Changes in precipitation patterns
- . More droughts and heat waves
- . Hurricanes will become stronger and more intense
- . Sea level will rise 1.4 feet by 2100
- . Arctic likely to become ice-free

-Vaishnavi Dabholkar



# SAFARNAMA

## VISITING UNCLE SAM!

### Hello Folks!

After roaming around the length of fabulous France in the last edition, we are now taking you to Uncle Sam's place! You guessed it right, Awesome America it is!

For the November Edition, we decided to interview some of those Ruitaites who were fortunate enough to have embarked on a 10-day trip to the USA in the beginning of 2017, accompanied by none other than Principal Suhas Pednekar himself! During the course of this educational trip, the students not only got to visit certain institutes affiliated to the University of Pennsylvania, but also got to explore the City of Dreams, the NYC!

The November Edition of Safarnama would not only give you an insight to this exhilarating trip via an interesting interview, but would also be a delight to read for the foodies! For we have a special section on the

Top 5 American dishes and another section dedicated to some facts on Pennsylvania. Also, don't forget to check out our column on America's Top 5! Read on to know more....

Let's begin with the excerpt of the interview of **Nayantara Siriguri** from FYBA and **Yash Nag** from FYBSC, two of the students who went on this trip-

### 1. What was the duration of the trip and how many students went for the trip?

The duration of the trip was 10 days. We were 20 students in all - 12 from the Degree College and 8 from Junior College.

### 2. Since it was an educational trip, what all did you exactly do during the University visits?

It being an educational trip, we participated in many workshops, which were very interactive and interesting. We would have workshops on Psychology, Biological Sciences, Computer Science, Chemistry, Cybersecurity, Nanotechnology, etc.



### 3. What were the major highlights of your trip?

Once, we got the opportunity to sit in the Pennsylvania State Assembly Hall, while we had representatives from various major universities from the whole of United States visiting us. One of the major highlights of our trip was that we got to spend 3 days in New York City. It was also a privilege to be accompanied by Principal Sir himself during the visits and the workshops.

### 4. Which universities and colleges did you cover during your visit?

We visited a huge number of institutes including the Westchester University, Rosemont College, Villanova University (Good for Liberal Arts and Biological Sciences), and the Harrisburg University Of Science And Technology, to name a few.

### 5. Apart from the educational visits, what recreational activities did you indulge in?

NYC was all about recreational activities! We visited the imposing Empire State Building and the view from its top was truly



brehtaking. We also visited the King of Prussia Mall where a few of us even got lost for a while, since it's the second largest mall in the world! Apart from that, we also visited Madame Tussaud's Wax Museum, the Statue Of Liberty, the 9/11 Memorial Zero Ground, the Apple Headquarters, Walmart, Target Departmental Store and spent at least 5 hours at the iconic Times Square. Our favourite visit was to Hershey's, where we bought loads of chocolates!

### 6. What are your best memories of the trip?

They were the best days of our life yet, since we made so many new friends and met some remarkable people over there! I still remember the very first day when we left from JFK. We were singing songs in the bus, overwhelmed by the city landscape passing outside...

### 7. Would you like to go for more such trips in the future?

Yes, of course. We would definitely love to!

Compiled by Priyanka Tibrewal and Shreya Nair



## GIFT FROM THE UNITED STATES

We owe a lot to the United States of America: memes, Disney, Priyanka Chopra's accent and constant fear of the third World War. But most importantly, American food. While most refuse to call it a cuisine and stick to the word 'junk' while referring to it, we present you a few dishes that are truly America's gift to the world, that is, only after FRIENDS!

### CHICAGO STYLE PIZZA

This extremely popular deep-dish pizza is pure ecstasy. It is more or less a bread casserole loaded with meat and cheese. Although it is a variation the original just-as-lovely pizza - Dear Italians, Americans have done it better!



### PHILLY CHEESE STEAK

The name is slightly misleading, for the Philadelphia Cheesesteak is not actually a whole steak served with mashed potatoes, the kind we can only drool over as residents of India - but is a sandwich with layers of cheese and chunks of beefsteak stacked messily between a hoagie roll. Yummm!!!

### MAC 'N' CHEESE

Does this legendary dish, which seems to have dropped straight from the fringes of heaven, need any introduction? Macaroni cooked in milk and cheese and seasoned with your favourite spices is the definition of delightful. Also, Jain variety available. Mac 'n' Cheese 2020!



### HOT DOGS

Who doesn't like hot dogs? At times, I wonder how everything that has the word 'dog' in it is amazing—pedogenesis, dogma, etc. But then Snoopdog flashes in and I feel doggoned. Nevertheless, hot dogs are a thing of beauty. When you see the sausage dressed in chilli and mustard, wearing a long bun, it is love at first sight.

### APPLE PIE

With a crunchy, chunky texture, a sweet aroma, and a delightful taste, the life of this Pi(e) is generally short-lived, especially when it is straight out of the oven. So, what are you waiting for? Hassle free hotel booking in the States, book Trivago! (sic.)



-Suryansh D. Srivastava

## AMERICA'S TOP 5

The United States of America is one of the hottest and most buzzing tourist places in the world. From the Statue of Liberty - a gift from France to the Caesar's Palace - a bank-robbing paradise, it has it all; complete with many other luxuries. Yet, there are always certain top factors that can make a trip memorable, in a good or a bad way. So here we list the top 5 places in the US that come under different categories.

**RANK** TOURIST FRIENDLY PLACES  
1 Philadelphia, Pennsylvania  
2 Miami, Florida  
3 Portland, Oregon  
4 Seattle, Washington  
5 Washington, DC

**RANK** MOST DANGEROUS PLACES  
1 Detroit  
2 St. Louis  
3 Oakland  
4 Memphis  
5 Birmingham, Alaska

**RANK** MUST VISIT PLACES  
1 Walt Disney World, Florida  
2 Central Park, New York City  
3 Statue of Liberty, New York City  
4 Bryce Canyon National Park, Utah  
5 Las Vegas Strip, Las Vegas,

## HOW MUCH DO YOU KNOW ABOUT PENNSYLVANIA?

1. Pennsylvania is the birthplace of a lot of America's favorite junk food and companies like Rita's Water Ice, Hershey's, Tastykake, etc. They say that "You don't come to central Pennsylvania on a low-carb diet, that's for sure!"

2. Ever heard of a town on fire? Well, the borough of Centralia, Pennsylvania, has been on fire for more than 50 years! The town's coal mine caught fire underground in 1962, and, with a constant supply of fuel, the fire has been able to keep on burning.

3. If you go on a drive through Pennsylvania, you will find some lovely scenery with town names that include Cheesetown, Eighty-Four, and Jugtown, not to mention Virgenville, Big Beaver, Intercourse, and Climax.

4. While munching on your burgers, you could soothe your ears as well. The stones covering the ground in Upper Black Eddy, Pennsylvania, produce "clear, bell-like tones" when struck, making you hock in for some literal rock music!

5. If you enjoy a little history with your hamburger, you might want to check out the Big Mac Museum, where the classic sandwich was first developed. The museum is exactly what it sounds like: paraphernalia-fueled homage to the fast food chain's famous sandwich.



# FICTIONALLY YOURS

## Fated to the Sword



### CHAPTER 1

“No! This is not possible. This cannot be true! If this is some kind of prank, you will pay for it”, she said. “I won't let you or anybody else take my normal life away from me. What do you think I am? Oh wait! You know what... never mind. I am leaving.” He held her hand and in a soft tone yet with a high level of authority, said, “You don't get it, do you? The fate of the crown lies in your hands. They will kill anyone in their way just so that you would do what they want you to do. You are the one. The sooner you accept that, the better it is for you.” He left her room, banging the door shut and hoping that she would make a sensible decision.

Kiara Swamy, a young girl of 18, had her mind set on only one thing – her dream to become a renowned novelist. Her obsession with romantic novels was her driving force behind writing deep and intense material. But everything changed on that fateful day, when he came back, only to release a few demons of the past that were going to shake the pillars of her almost perfect life. That person was Krish Vijayan – a young lad of 20 and the forgotten childhood buddy of Kiara. A youth icon. He was not only the son of one of the richest businessmen in town, but also the owner and the lead singer and guitarist of a musical band, “Life Beatz”. Krish was the heartthrob of many young girls but he had surrendered his heart to the only girl whose secret he bore – the secret that connected them and the secret that forced him to stay away from her for 12

years. He was her guardian – Kiara's guardian angel and had been so for a very long time. But now he decided it was high time she knew it all. And he was going to tell her the truth, even if it caused her to hate him. Even if he lost his love.

When Kiara came to know that Krish and his family were visiting her place, she found herself thinking, ‘Why now?’ ‘Why after so many years?’ She ignored the gut feeling which told her that something was about to go wrong. Their fathers had been best friends since high school. Her thoughts took her down the memory lane and she was busy recollecting the moments they spent together. She always wondered why they hadn't met for the past 12 years but her father always gave her vague answers such as ‘the time is not right’ or ‘it could be dangerous for you’. She jumped with

surprise when she heard a knock on her room door. And there he was, Krish, standing with his hands dug into his jeans pockets, leaning against the wall. With a serious look on his face, he said, “You need to come downstairs. There is something you need to know,” and then walked away, leaving her baffled.

“What's wrong? Krish said that I have been summoned here.” Everybody looked at one another not knowing what to say. It seemed as if a thousand words needed to be spoken and yet they all sat mum. Clearing his throat, her father spoke up, “Kiara, my child, there are a few things you need to know about. It is a matter of life and death, dear. I'll lead you to a person who will then tell you the whole truth. But please keep an open mind.” After a pause, he continued, “I know you hate being bound by love and you might hate us after this but ...”

“But what Dad? You are scaring me now!”

“Krish is the key to all your answers. The reason he was kept away from you was because of the scroll of destiny that has been passed on in our family. He is your soulmate, Kiara. No, no wait, I don't know what you would consider this as – an order or a request. Go with him to your room and have a chat. And remember, we, as your parents, will not do anything that is wrong for you.” She stormed into her room and he quietly followed her. “Spill! I need no more deceit and lies in my life.” He sat next to her and began, “Look, I understand it is going to be really difficult for you to cope with all this and I hope to make it really convenient for you. Do not blame your parents. All they thought about was your safety.” “Get on with the real story, please. I don't have to listen to your justifications.”, she said. He then continued, “A few decades ago,

there existed a sword that had the powers of all the elements. The sword always bonded with its true master and when its master died, it got passed on to the next true-blood in the lineage. However, during the reign of the last Queen, Chandralekha, enemies were closer to her than she thought. Her enemies were her own people – her second husband and her stepson. When she realized that they were coming to kill her to obtain the sword, she fixed the sword into a big boulder with all her might and cast a spell on it –

*For when a century passes,  
And the mystic forces are uncovered,  
She who will possess my true bloodline,  
By her will it be recovered.*

And soon after that, she was brutally murdered.”

“So what does all of this have to do with

me? Why am I being dragged into this mess, Krish?”

“Don't you get it Kiara, you are the one! You are the true descendant of Queen Chandralekha and you are the bearer of that mystical sword. The boulder with that sword was just discovered last week from an excavation at a small village near Kerala. There are a few people who are hunting for that sword and have evil intentions. Once they find out that you are THE ONE, they will come for you or else they might destroy the sword. You need to take the sword out, Kiara. That is the only hope we have or else everything is doomed. They will destroy all the goodness present on Earth. The fate of the world rests in your hands. You are not alone in this. A team awaits your leadership, Kiara. Once you wield the sword and master it, you and your team have to protect the universe. I will be there by your side all the time and that's my promise.”

“So you think I am the one?” she asked calmly. It was like the lull before the storm.

“I know you are the one and time will prove it. At this very moment, I pledge that I will protect you at any cost, even if it means putting myself in danger”, his

eyes gleamed with firm determination.

**A few days later.....**

She dropped the sword and fell on her knees. Nobody knew what she was thinking, for her face was bent low. When she raised her head, everyone let out a gasp. Her eyes that usually held a

million thoughts at once were now blank and lifeless. In a hoarse voice she said, “I don't have a choice now, do I?”

*.....To Be Continued  
-By Shruthi Narayan*





# ARTWALL



CHINMAY PATWARDHAN



ADITI KULKARNI



GAYATRI GODBOLE



ADVAIT VARTAK



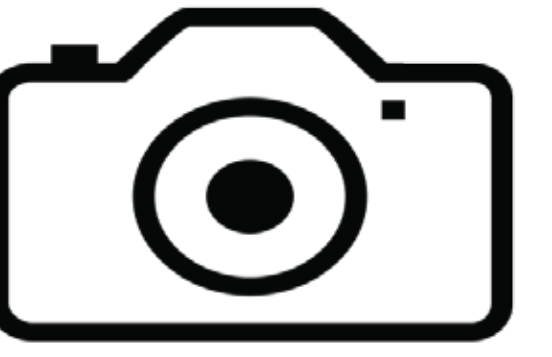
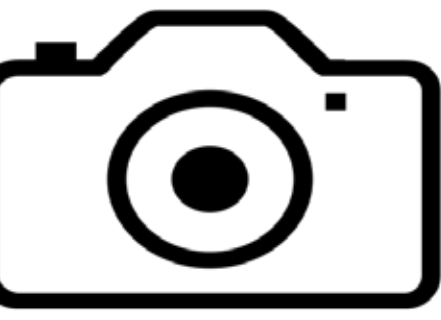
OJAS CHAUDHARI



SUBHASRI SAHOO



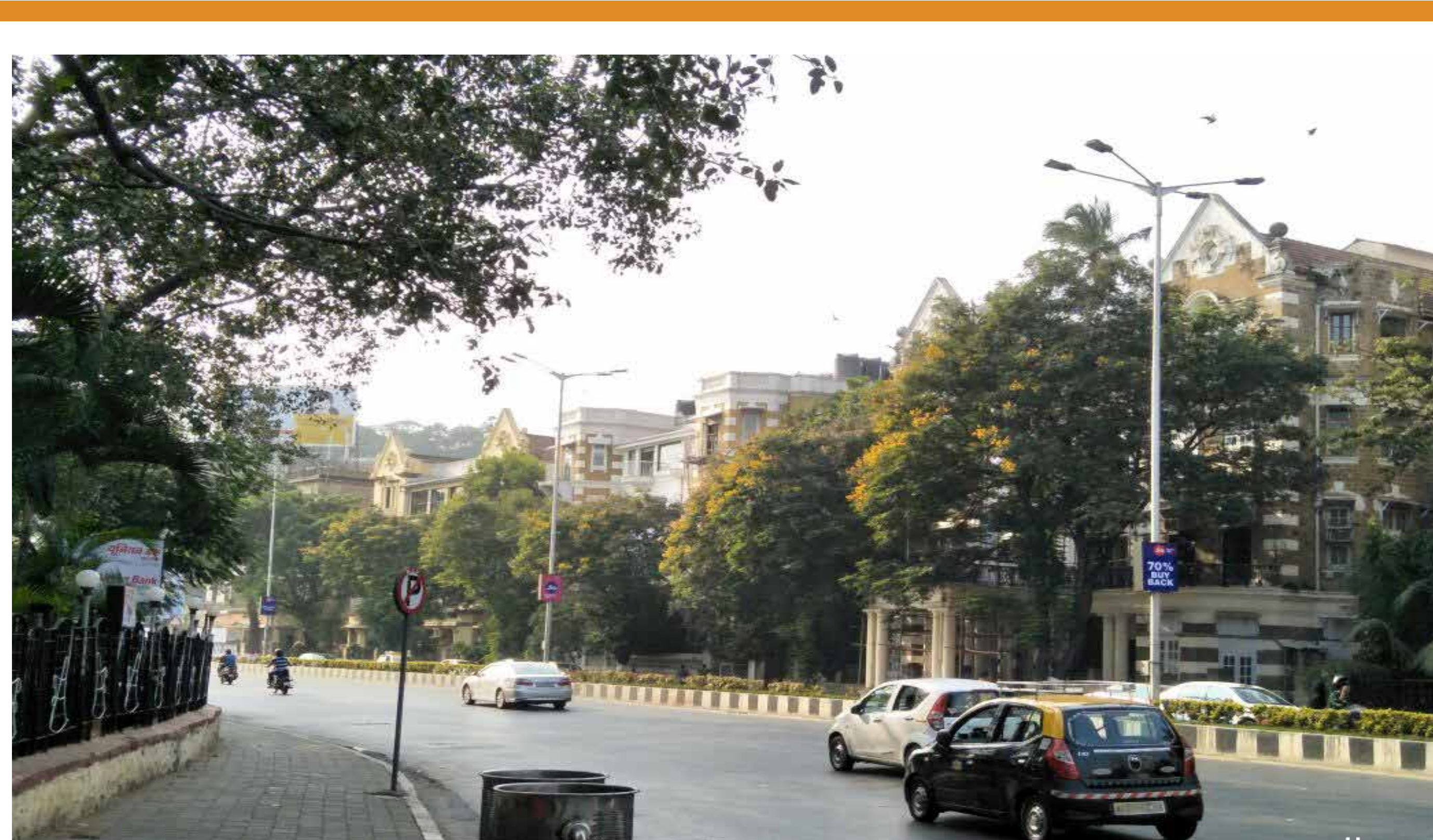
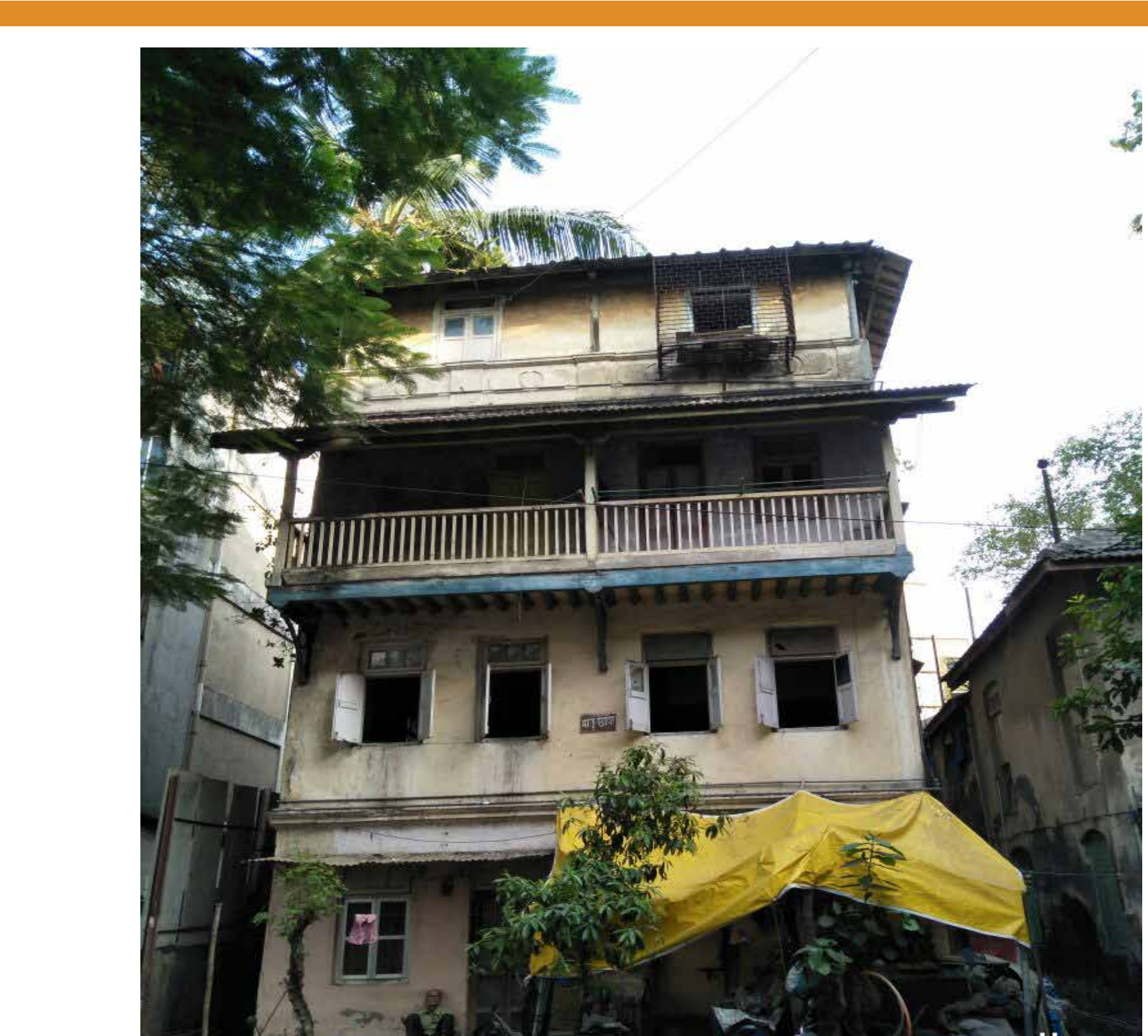
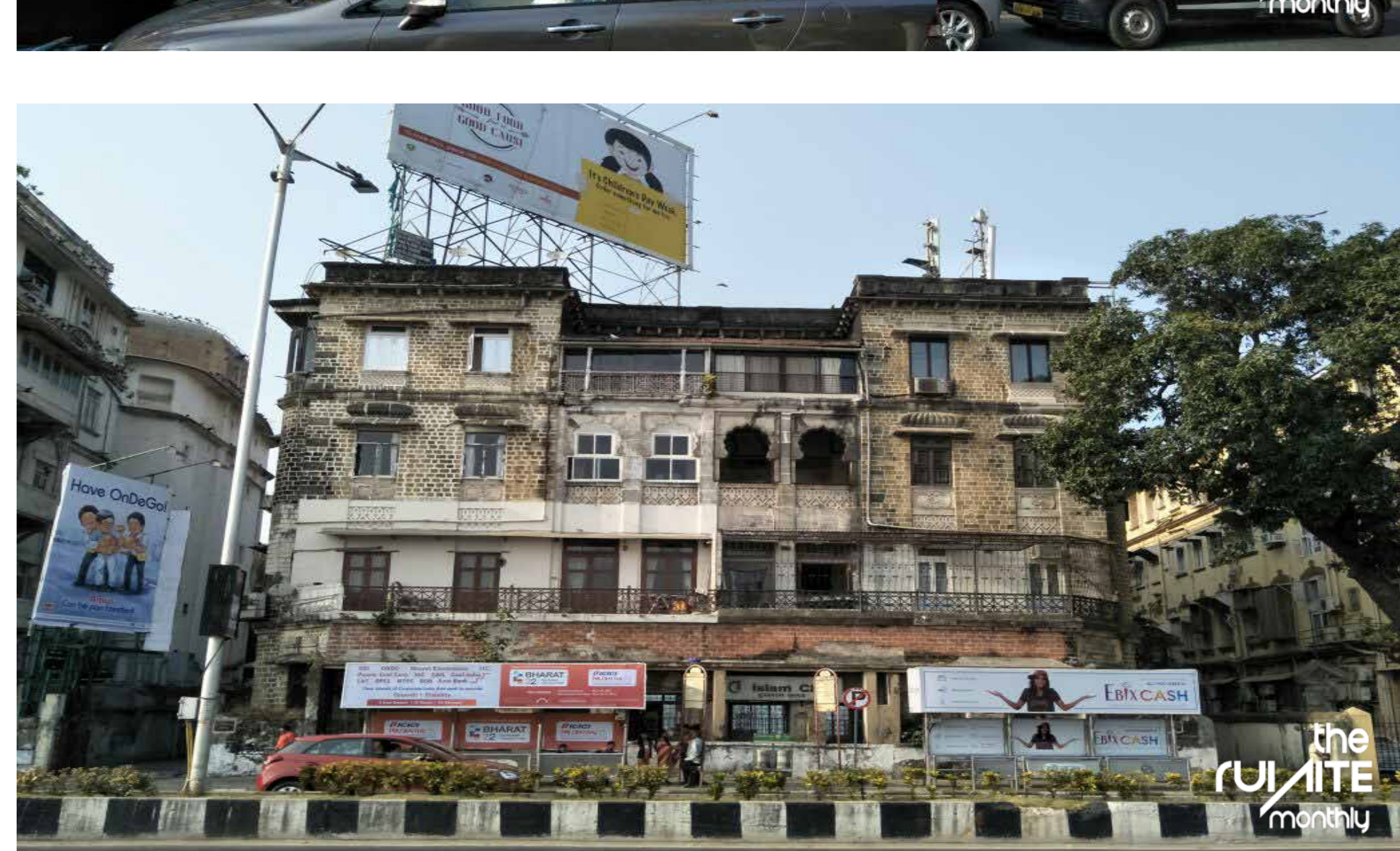
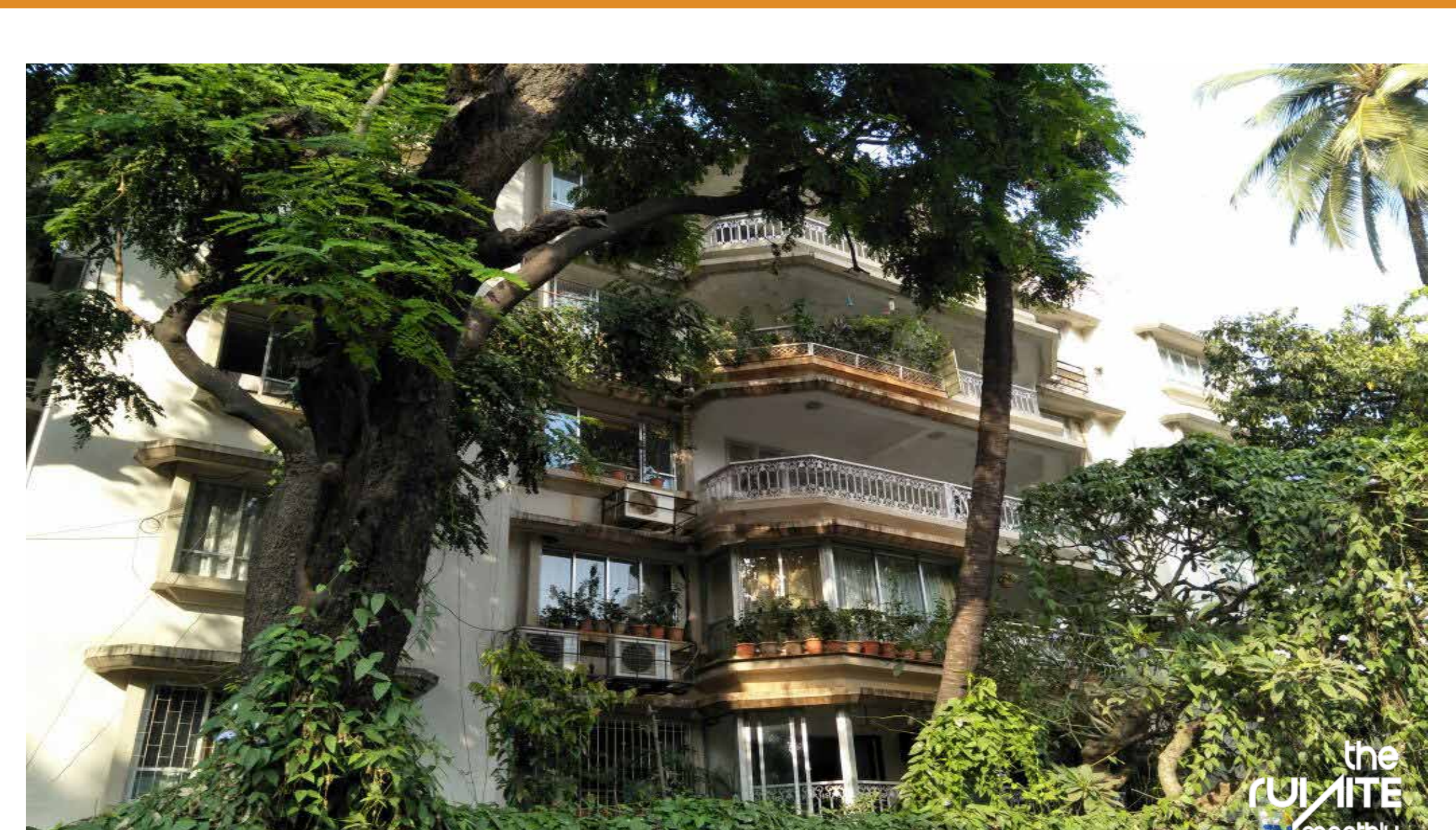
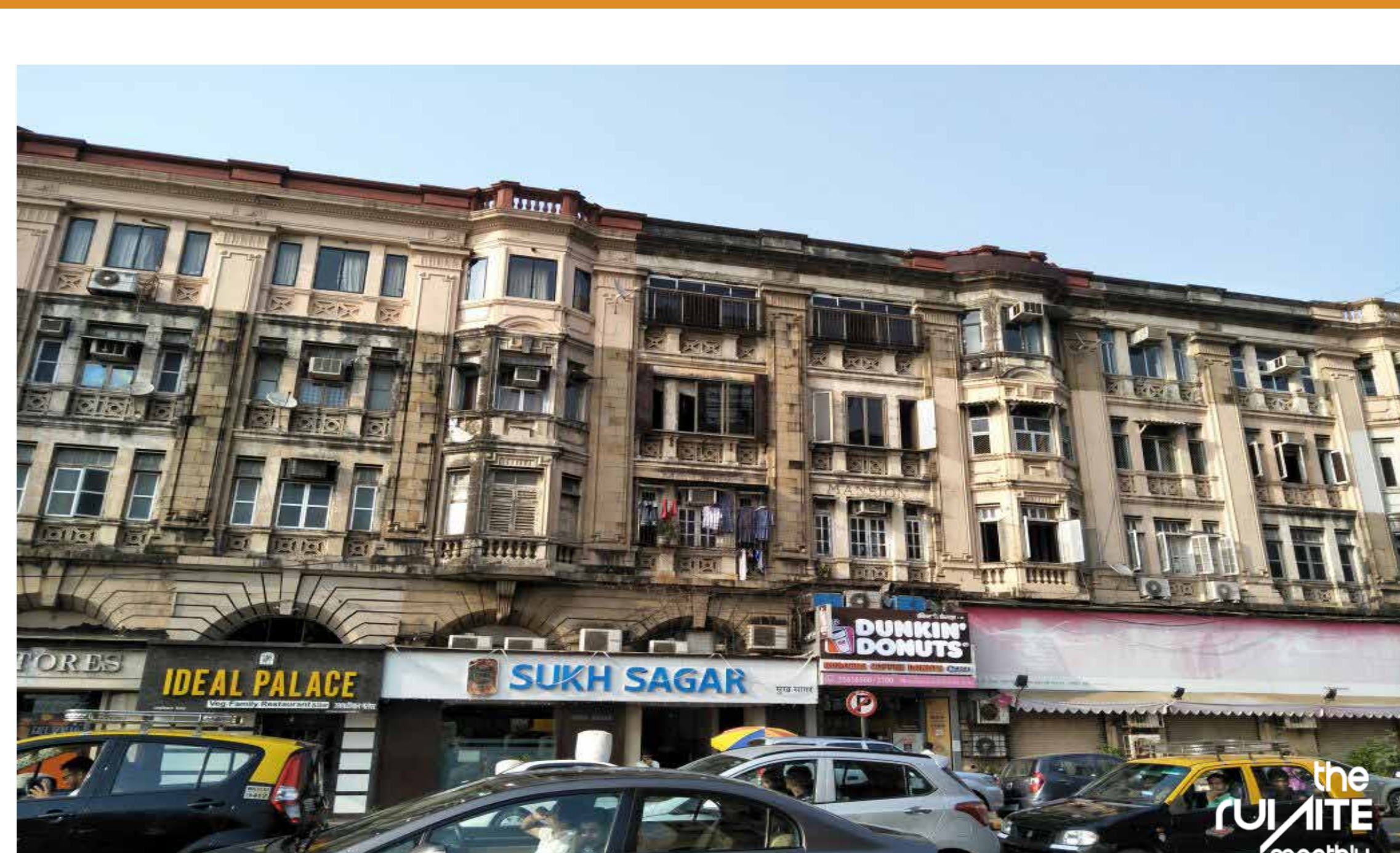
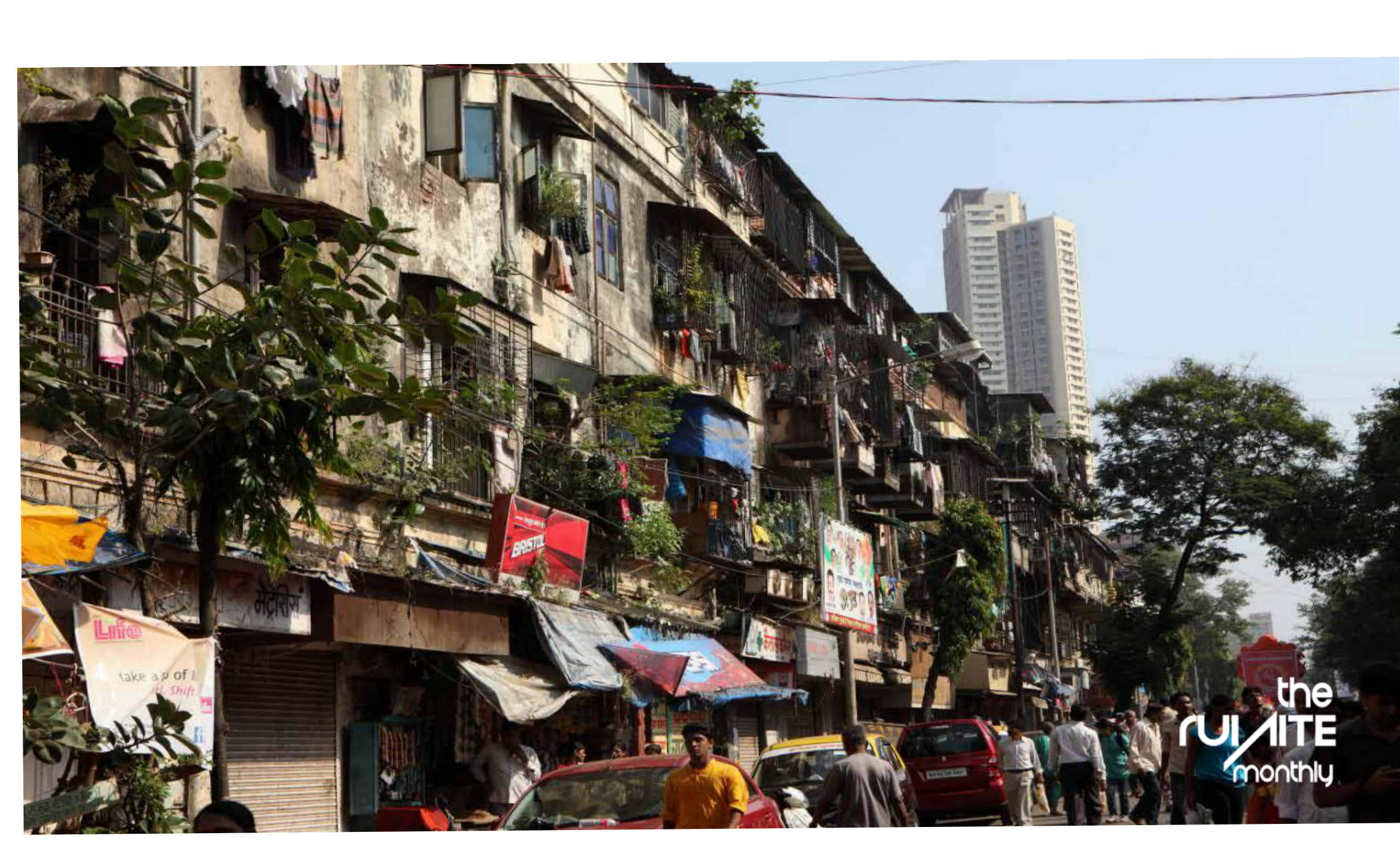
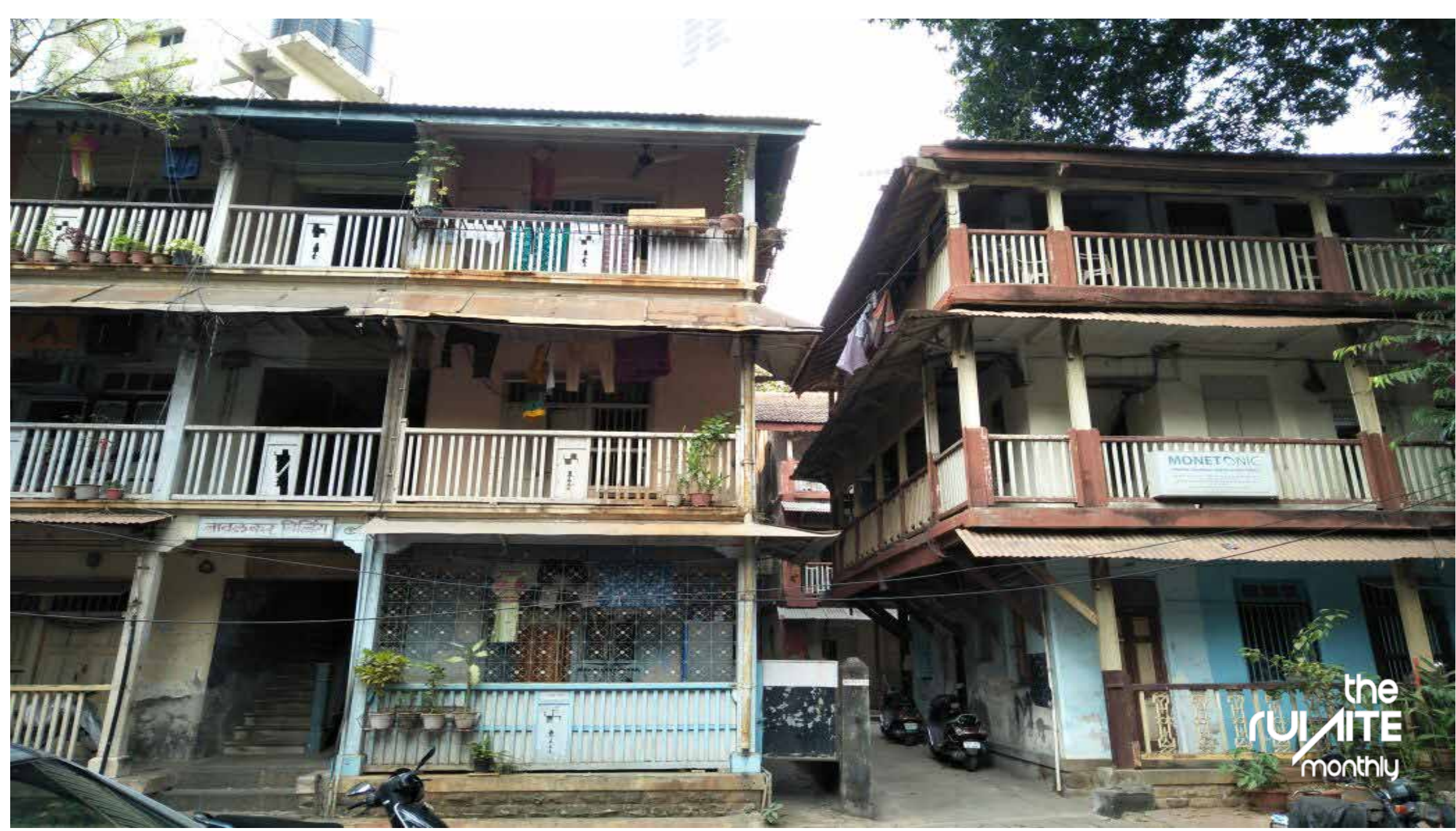
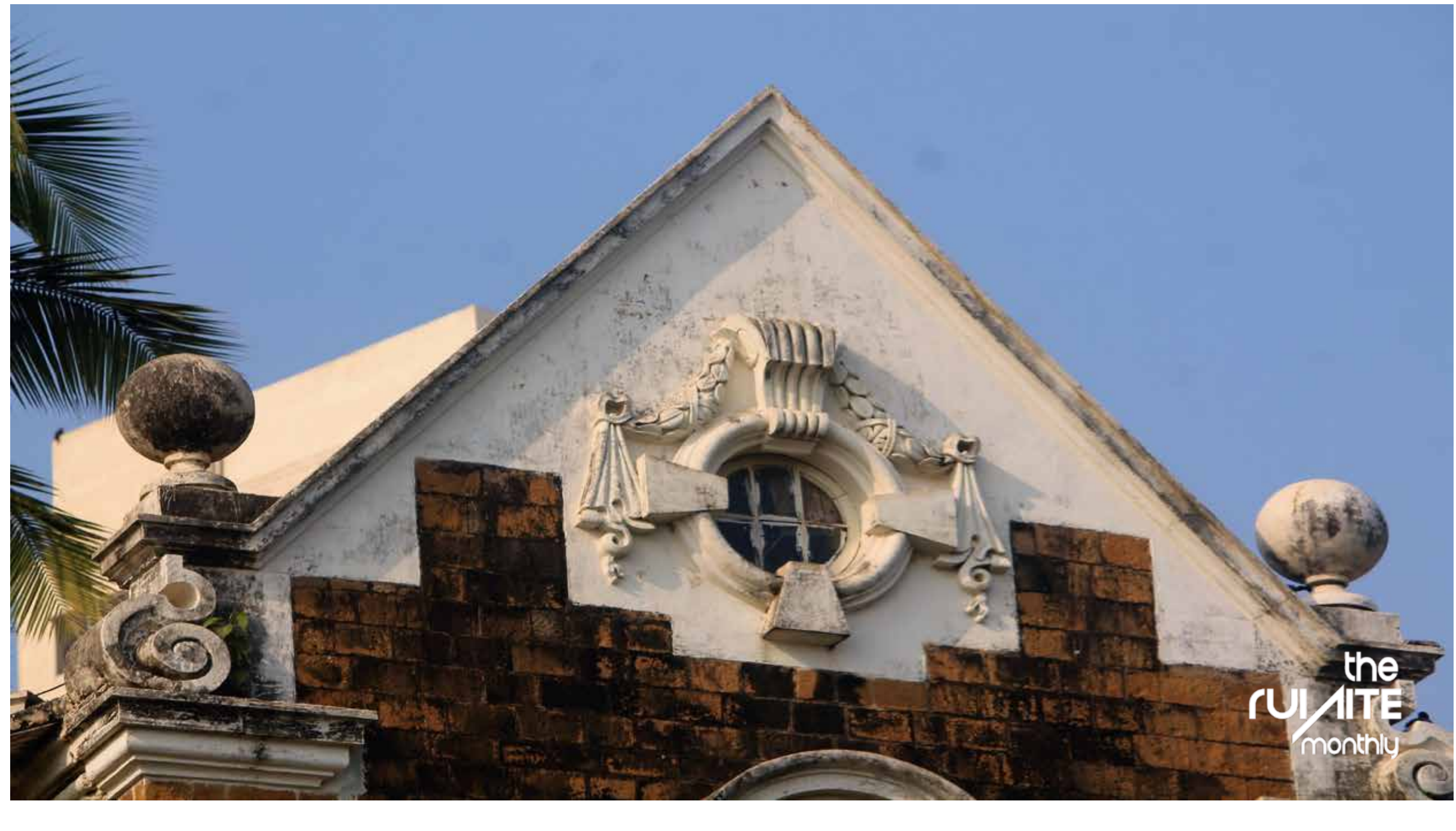
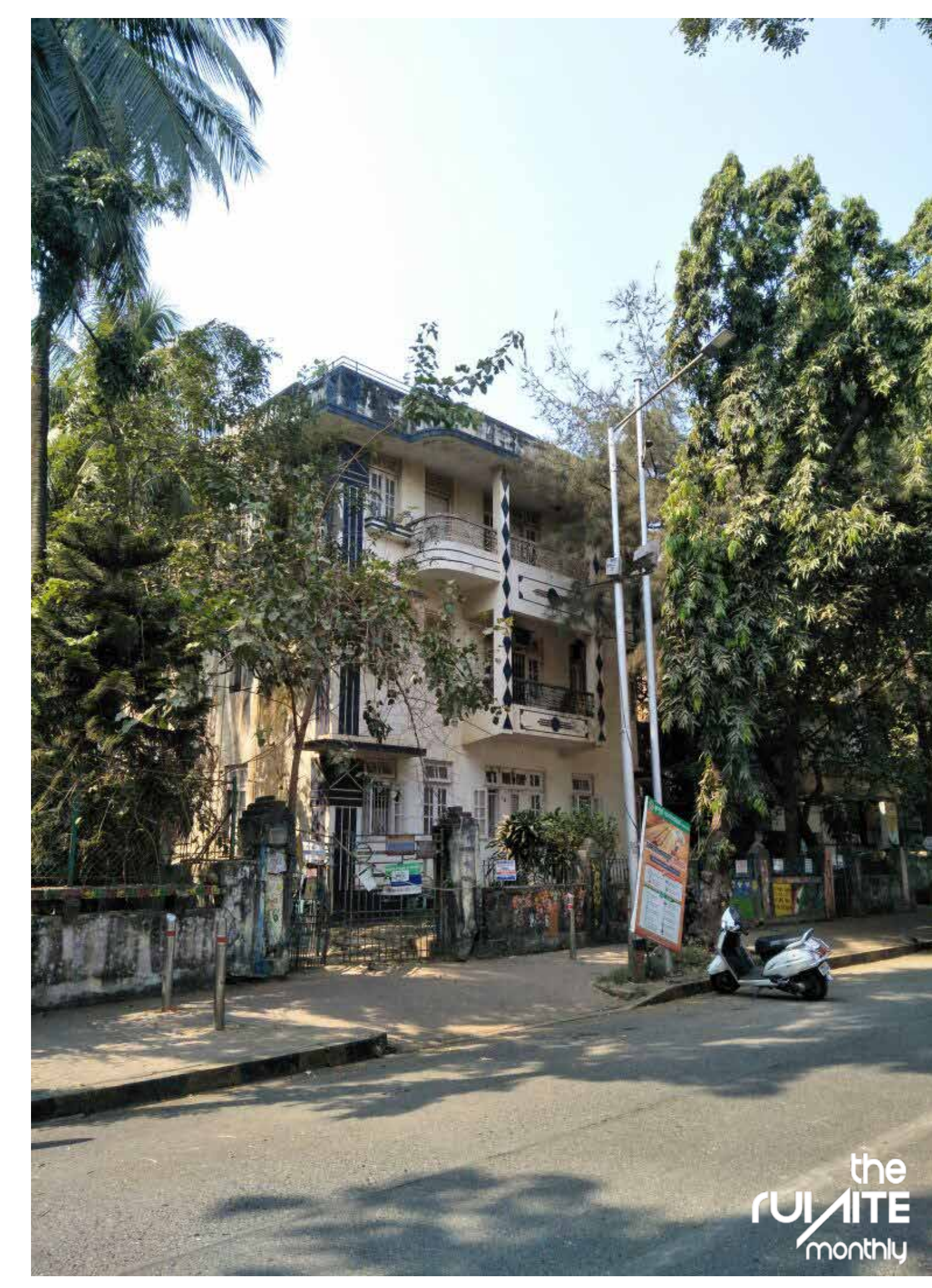
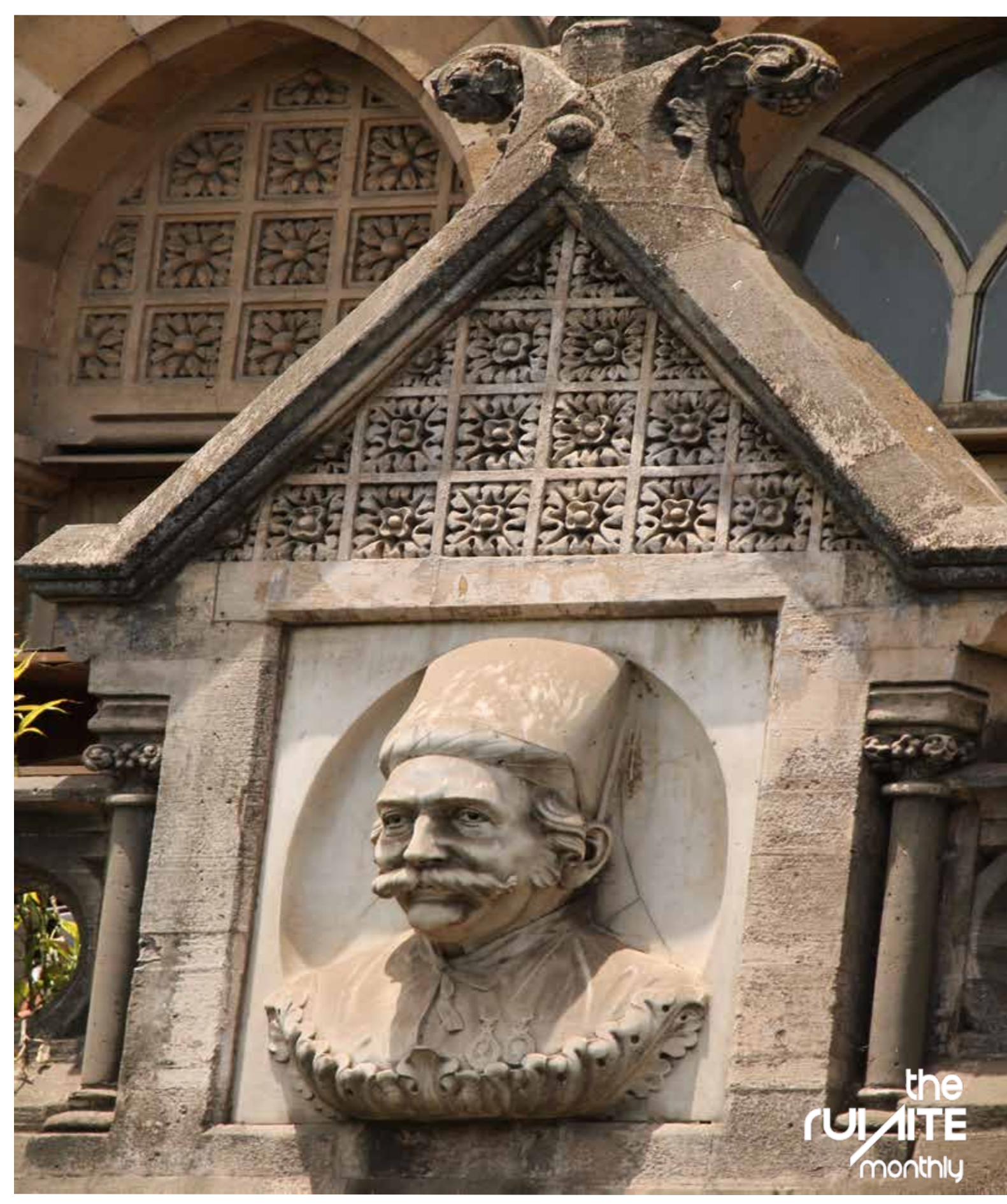
PRIYANKA DEODHAR







# ROAMING AROUND THE CITY



## THE ARCHITECTURE OF STRUCTURES IN MUMBAI: FROM CHAWLS TO HERITAGE

When we speak of Mumbai we are always reminded of the buildings built by the British Empire, the Victoria terminus, the high court, the municipal corporation and so on.

These structures have such intricacies that one may stand and admire it for hours and hours together. They have a traditional kind of beauty and have been sought by aristocrats as homes. Areas of South Mumbai are so famous for these structures that heritage walks are arranged for such enthusiasts. Walking through the corridors and staircases of these buildings gives us a sense of admiration for these old structures. Whereas these are very contradictory to the kind one may find in Mumbai i.e. in areas like Dadar and Girgaon.

Affordable housing is now an official buzzword. Chawls are a type of residential building having a characteristic layout. Typically, housing units in chawls known as 'kholis' are availed of by relatively poor but gainfully employed working class families, and which were mainly convenient for those who emigrated from different parts of the country in Mumbai to work in mills. A chawl includes common Verandah, toilets which are shared, and a sense of intimacy with those sharing the space.

Chawls have been themes for films and have inspired several creative people. Life in a chawl is never dull. People live an open door life and you get to know the ins and outs of each family.

This type of housing is no longer built but remaining structures are still in demand because of their relatively affordable rents.



# STUDENTS' CORNER

## *Hey Sophia!*

Humans have ruled over Earth for too long and now it's time for robots to take over. Yes, you heard it correct !

Sophia, a robot from Saudi Arabia, made by David Hanson is 14 inch tall, one of its kind humanoid, designed to make over 50 facial expressions as users ask her about the weather, traffic and other basic trivia. She also happens to hold the citizenship of a country. The first time in history for a robot to receive a citizenship while many others still linger stateless!

She has cameras and AI software that allow her to 'make eye contact' and recognise people. Sophia can bare her humanoid teeth to show anger, raise her eyebrows and frown to reveal sadness, and is also able show happiness.

She also has voice recognition capabilities and can become smarter by talking to people. Apparently, she was created to look like Audrey Hepburn.

In Saudi, there are several restrictions on women which ban them from the right to vote and forbid them from stepping out in the public without wearing a burqa.

Thus this female robot is in topic, not only for the status of women and their position in Saudi Arabia but also across the world.

**HUMAN MIND BEHIND ALL THIS. BUT WHAT NEXT?**





# TEAM RUIAITE

|              |   |  |  |   |  |
|--------------|---|--|--|---|--|
| Column/Team: | Insight   | Tech - Tricked   | Open Forum   | Behind the Scenes   | Op-Ed  |
| Column Head: | Sae Patkar  | Vaishnavi Dabholkar  | Gayatri Godbole  | Aditi Kulkarni  | Nikita Agrawal   |
|              | Himani Joshi<br>Rohan Pawar<br>Neha Nayak<br>Sara Chavan<br>Tanvi Padia                 | Shubham Borhade<br>Atharva Bidwalkar<br>Vighnesh Lokare  | Ishita Nirbhavne<br>Riddhi Jadye<br>Natasha Desai<br>Sayli Mayekar                     | Advait Unnithan<br>Chinmayee Dixit<br>Shreya Mahendran<br>Himanshu Pawar<br>Sanika Botekar          | Niyatee Narkar<br>Tanvi Ghag<br>Jui Mande<br>Lekshmi Prakash<br>Akshay Sant<br>Shabduli Shinde   |
| Column/Team: | Career Wise   | Art Wall   | Buzz Around  | Safarnama   | Science of Everything  |
| Column Head: | Aniushka Joshi  | Gayatri Godbole  | Swara Jamdar   | Ojas Chaudhari  | Dhruv Rathod<br>Vaishnavi Dabholkar  |
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