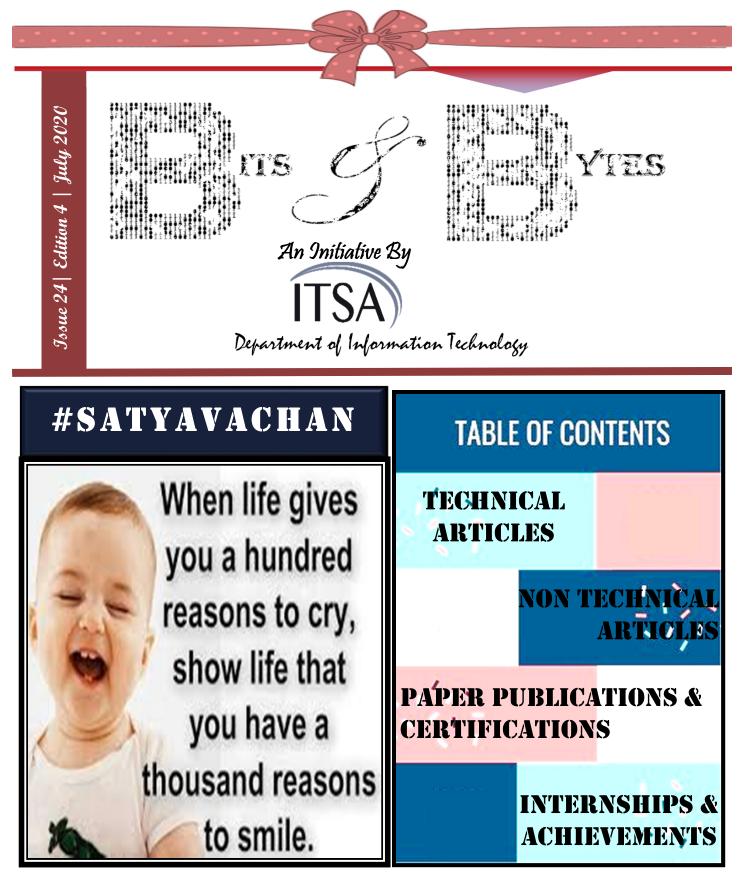


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Designed by Mrs. Mudra Doshi & Mrs. Rovina Dbritto

<u>Top 10 technology trends that will redefine a post COVID-19</u> <u>world</u>

The COVID-19 pandemic has disrupted the life and lifestyles of people across the globe. Government has enforced lockdowns to curb the spread of the deadly virus. Work from home is the new reality for many businesses as they struggle to operate during these uncertain times. Schools and colleges are conducting online classes to complete their syllabus; social distancing is the new norm in grocery stores and E-commerce companies are making Covid-safe deliveries to their customers. In this new reality, communication technology offers solutions to overcome some of the challenges thrown up by the pandemic. Here are a few of the technology trends in the field of communication which are poised to redefine a post Covid-19 world.



1."<u>Virtual"meetings:</u> With lockdowns, and travel restrictions, face-to-face meetings and 'huddles' will need to be redefined. Industry will experience an increase in virtual meetings. Already, applications like Zoom and Google Meet have seen a sudden spurt in users.

2. <u>Online Education</u>: Post the lockdown, a large chunk of academia has gone online. Schools, colleges and coaching centres are conducting online classes via video conferencing. Dedicated education apps have witnessed a huge spurt in growth as students are learning concepts on their mobile phones.

- **3.** <u>5G</u>: With the increasing demand for faster and higher bandwidth networks, due to remote working, 5G which is the next generation network designed with "Service Based" architecture might get adopted faster.
- 4. <u>Shared Spectrum:</u> Technology trends make it clear that in a post Covid world, more content will be watched and consumed on mobile devices, be it in form of video conferencing for a

meeting, an online class, or Video for entertainment. Even before the pandemic, video occupied over 70% of the content transmitted over the mobile network. This will rise exponentially in the post Covid world and will overburden mobile networks which are not designed to handle such load. To prevent network congestion and improve user experience, the communication companies will use "Shared" spectrum.

5. <u>AI/ML based Communication:</u> Artificial Intelligence and Machine Learning (AI/ML) will be playing an increased role in the communication solutions of the future. When communication is being done using shared spectrum AI/ML systems will be continuously monitoring the load on the various networks. Network load and number of users the AI/ML systems can help networks make a decision to choose the most optimum parameters to deliver conten

6. <u>Virtualization</u>: With more data being transmitted the mobile operators would have to ramp up the network infrastructure in order to support this large volume of data. Ramping up physical infrastructure is very costly so many operators will opt for virtualization to reduce the capex and opex. For example, RAN virtualization is adopted by many network operators which separates the network functions from the hardware.

7. <u>**Rural Broadband:**</u> Covid-19 has changed the demographics of cities. The lockdown followed by the loss of jobs triggered a reverse migration from cities to villages. It is not certain how many of them will choose to return once the pandemic scare has passed.

8. <u>IoT Solutions:</u> There has been a rapid proliferation of "smart" devices which are connected to the internet. Post Covid-19, as a result of social distancing norms, there will be a larger growth in such devices. We will see the use of "Smart" devices in "Smart" homes.

9. <u>Remote Sensors and Monitoring Solutions:</u> Slowdown in travel will ultimately lead to proliferation of remote sensors and monitoring solutions. These sensors and monitors will be installed in remote areas like agricultural fields, oil rigs, remote factories and warehouses, mines etc.

10. <u>Satellite based asset tracking solutions:</u> In many places across the country where mobile network connectivity is patchy, there will be an increase in remote asset tracking solutions. This is because movable assets such as trains, trucks, fishing boats, etc continuously move in these areas.

Source: <u>https://content.techgig.com/top-10-technology-trends-that-will-redefine-a-post-covid-19-</u> world/articleshow/75672222.cms

-Mr. Akshay Agrawal

(Assistant Professor)

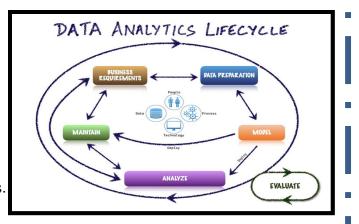
Building Blocks for effective Data Analytics organization

Data analytics is the process of analyzing the data using specialized systems and applications to extract relevant, meaningful information to draw insights and identify patterns. It enables organizations to make more-informed business decisions, and scientists and researchers to verify the theories and models.

Data analytics initiatives can help organizations or functions within the organization in a wide variety of ways, for instance, to name a few, improve operational efficiency, increase revenues and (or) profitability, reduce cost, drive improvement of product and services, respond more quickly to fast changing environment and market trends, improve customer satisfaction, identify new opportunities, gain competitive advantage, to address the primary objective of improving business performance. Data Analytics promises a lot of benefits but successfully deploying analytics to

realize the benefits in any organization can be challenging.

The following are the building blocks applied to establish an effective Data Analytics Organization which adds value to the business by providing actionable insights. By understanding and applying them, an



organization will be able to create a clear picture of where they are, where to go, why to go and how to get there.

- Business Analytics Strategy Alignment People
 - Process
- Technology
 - Data Analytics Life cycle
 - Business Analytics Strategy Alignment
- Strategy Alignment empowers business with insights and drives decisions and priorities for analytics organization.



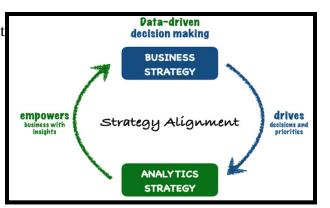
Strategy Alignment empowers business with insights and drives decisions and priorities for Analytics organization.

One of the most persistent issues facing Data Analytics organization in any industry today is the lack of synchronization between analytics initiatives and the business strategic goals. This disconnect has caused failed initiatives, lost opportunities, loss of investment, time and resources leading to loss of business trust and adoption.

Such failures and loss of business trust shows us the importance of collaboration between business and data analytics organization.

Article 2: What is Strategy alignment in Data Analytics?

Business - Analytics (B-A) Strategy alignment is a discipline that synchronizes analytics strategy with business strategy with the goal to help maximize the value created by the enterprise. It is an ongoing process, not a one-time activity.



B-A strategy alignment refers to using Analytics tools and capabilities in an appropriate and timely way, in agreement with the business strategies and goals. The goal is to make analytics more relevant and connected to business.

The business and analytics performance are tightly coupled, as an organization cannot maximize the return on investment in analytics if its business and analytics strategies are not aligned.

Implementing an effective B-A strategy alignment model will help improve the organization's performance leading to efficient processes, accessible business-relevant insights, maximizing value, and improving adoption of analytics in the organization. With this alignment, the Data Analytics Organization will be able to:

Prioritize analytics efforts and initiatives as per business needs.

Written Kunal Narnag;

Source: https://lnkd.in/eFg7tjq

-Mrs. Yogita Mane

(Assistant Professor)

Artificial Intelligence and Machine Learning

Artificial intelligence is a technology that is already impacting how users interact with, and are affected by the Internet. In the near future, its impact is likely to only continue to grow. AI has the potential to vastly change the way that humans interact, not only with the digital world, but also with each other, through their work and through other socioeconomic institutions – for better or for worse.

Artificial Intelligence (AI) is a rapidly advancing technology, made possible by the Internet, that may soon have significant impacts on our everyday lives. AI traditionally refers to an artificial creation of human-like intelligence that can learn, reason, plan, perceive, or process natural language . These traits allow AI to bring immense socioeconomic opportunities, while also posing ethical and socio-economic challenges.



As AI is an Internet enabled technology, the Internet Society recognizes that understanding the opportunities and challenges associated with AI is critical to developing an Internet that people can trust.

Artificial intelligence (AI) has received increased attention in recent years. Innovation, made possible through the Internet, has brought AI closer to our everyday lives. These advances, alongside interest in the technology's potential socio-economic and ethical impacts, brings AI to the forefront of many contemporary debates. Industry investments in AI are rapidly increasing , and governments are trying to understand what the technology could mean for their citizens.

Current Uses of AI:

Although artificial intelligence evokes thoughts of science fiction, artificial intelligence already has many uses today, for example:

1. Email filtering:

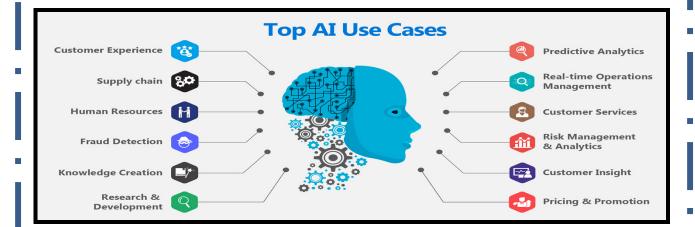
Email services use artificial intelligence to filter incoming emails. Users can train their spam filters by marking emails as "spam".

2. Personalization:

Online services use artificial intelligence to personalize your experience. Services, like Amazon or Netflix, "learn" from your previous purchases and the purchases of other users in order to recommend relevant content for you.

3. Speech recognition:

Applications use artificial intelligence to optimize speech recognition functions. Examples include intelligent personal assistants, e.g. Amazon's "Alexa" or Apple's "Siri".



Artificial intelligence is further defined as "narrow AI" or "general AI". Narrow AI, which we interact with today, is designed to perform specific tasks within a domain (e.g. language translation).

General AI is hypothetical and not domain specific, but can learn and perform tasks anywhere. This is outside the scope of this paper.

Source: <u>https://www.internetsociety.org/resources/doc/2017/artificial-intelligence-andmachine-</u> <u>learning-</u>

policypaper/?gclid=EAIaIQobChMIwuXzqeWX6gIViSQrCh2dyA1rEAAYASAAEgIcf_D_BwE

-Mr. Allan Lopes (Assistant Professor)

Tips to negotiate your salary during COVID-19

You managed to find a new job amid ongoing COVID-19 lockdown. Kudos, But is the salary a figure that you were expecting?

Here are the ways which will help you to negotiate salary better -

Credible references:

In the wake of COVID-19, companies across the globe are hiring remotely. Hence, in such a scenario any employer will use a variety of resources to check about the candidate.

Perhaps, to deal with such a situation it's advisable to give credible references. The reference that you quote should be highly credible, with whom you have worked closely and who can talk about your core strengthens.

Genuine reason for job switch:

Avoid quoting unnecessary reasons such as 'I didn't get well with my manager', 'I was overloaded with work', etc for job switch give a genuine reason for your job switch, because this can make or break your salary negotiation conversation.

Don't get victimised:

To deal with the current crisis companies are considering measures such as salary cut and layoffs. That doesn't mean that you don't bring the discussion of salary negotiation to the table. Many companies would like to play the odds in their favour, but remember if they are hiring amid current times, they can very well pay you the package you deserve.

Build a portfolio:

Professionally it's important to have a portfolio of your work that showcase your worth visually. It should include a sample of your work, your achievement in your career, exclusive projects, responsibilities performed by you, etc, these things might help you to strike a better deal with your new employer.

Source:

<u>https://m.timesjobs.com/mobile/careerinsightdetails.html?newsId=75737085&utm_source=content_communication1&utm_medium=email&utm_campaign=content_communication_31May20</u>

- Mr. Akshay Agrawal

(Assistant Professor)

A limit of your kindness

Recently Steve had a car accident. So he put his car in the garage to carry out the repair work. Since he had to go to the job daily, he decided that until the car is ready, he will travel by the metro train. One day, he noticed a homeless guy at the train station at night. He felt pity for him, so he gave him some change from his pocket.

The homeless guy thanked him for it. Next day again, he noticed the homeless guy at the same place. This time Steve though to get him something to eat, so he went outside the station and brought him a meal. The homeless guy thanked him for his kindness. But Steve got curious and asked him, "How did you get to this point?"

The homeless guy looked up at him and with a smile, he said, "By Showing Love." Steve didn't understand it, so he asked him, "What do you mean by that?" The homeless guy replied that "Throughout my whole life, I made sure that everyone was happy. No matter what was going right or wrong in my life, I always helped everyone."

"Carry out a random act of kindness, with no expectation of reward, safe in the knowledge that one day someone might do the same for you." – Princess Diana



Steve asked him, "Do you regret it?" To which the homeless man replied, "No, It just hurts my soul that the very people I gave the shirt off my back to wouldn't give me a sleeve of that same shirt when I was in need. Son, It is better to build your own house and invite someone in for shelter than to hand them your bricks while you are building yours. Because one day you will turn around and look at the spot where you had planned to build your house. It will be an empty lot. Then you are the one looking for bricks. "Steve understood what the homeless guy meant and thanked him for the good advice.

Moral: Helping others is not a bad thing at all. But sometimes, while we are helping others, we forget our own problems and needs. One must remember that sometimes sharing is better than giving away. You can do a lot more by being in a strong position instead of bringing yourself into a weaker situation.

Source:

<u>https://www.moralstories.org/a-limit-of-your-kindness/</u>

-Mrs.Rovina Dbritto

(Assistant Professor)



A vítal realizatíon : COVID-19

It is a large family of viruses that cause illness which does not have any precautions yet. As people of all ages can be infected by a new coronavirus (respiration syndrome coronavirus 2). We believe in government for this 21-day quarantine as it was totally necessary to reduce the case before it spreads to a large of people.

As it is also a good time to spend time with a family member and to be at home is very necessary to be 100% safe.

As there are people We all should be proud of health workers, truck driver, and as we are in the group of feeding India we also know there are people who cook meals n some volunteers staying nearby the needy people go n feed them with precaution we are really happy that people are taking the good initiative with a good vision we are glad we can appreciate them personally.

All the people who can work from home should work from home and not step out. As there are people who want to be home this quarantine and are stuck up in the office because off overloading work

Mental health and routine during lockdown can be tough

- As our day isn't governed by schedules like train or metro timings, college timing, etc. I believe we all should maintain our sleep schedule. Determine when you need to log in and work your way backward to ensure sufficient rest.
- We all can get some exercise daily and do activities that help us relax. Group calling is a great way u can refresh your mind.

CORONAVIRUS:

About:

CoronaVirus is the hottest topic that has been in the News and Social Media form last fortnight. The Coronavirus also known as COVID-19 virus that is evolved from the wet market in Wuhan a place in western China. The wet market indicates a market where wild animals are been sold for consumption purposes. The virus mainly affects mammals especially humans. It spreads through the droplets that come out of the mouth during talking, coughing, and sneezing.

Prevention is better than cure:

The virus has no cure! There is no vaccine as such to cure the disease. The treatment of the disease is given symptomatically. It means there is no such weapons to fight with the virus but symptoms of the virus are treated. So the only way we are left with is prevention. The Government has requested all the citizens to be at home.

Hence, taking precautions is mandatory.

<u>Gratitude to be paid</u>: Mention should be made of all the social workers like cleaners, vegetable vendors, truck drivers, and all those who are working to complete our daily needs. Thankful gratitude to those who come out of their house to help the poor and needy people by serving them with food.

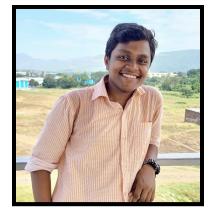
<u>Our prime duty</u>: "We stay at work for you, please do stay at home for us." This was the statement given by all the Doctors and medic personalities to the people. This is our prime duty to stay at home and not to go out of the house until and unless it is necessary. This time can be utilized as quality time with the family. Music, meditation, doing indoor exercise is a solution to eradicate your stress.

Pledge:

At this time of crises let's come together and support not only the country but the entire humanity to fight against the virus. This is the best way to serve humanity by just staying home. Also please do help the needy people especially the migrant workers by providing some food and necessary items, if possible. I hope that everyone will co-ordinate and overcome the pandemic together.

> "We shall overcome, we shall overcome, we shall overcome some-day Oh! Deep in my heart, I do believe, That we shall overcome someday."





-Ms. Aditi Patel & Mr. Avik Ghosh (BE IT)

Paper Publications & Certifications

The impact of Covid-19 is being felt across the globe. All Employees are worried about what the future holds for them. In a situation like these the best thing to do is sharpen our skills by researching and gaining knowledge over multiple subjects as well as learning through online courses and practically implementing it.

Our Faculties have been inspiring the students to learn and implement their knowledge by participating in competitions, publishing papers & learning virtually.

| Sr. No | Name of the Faculty | Title of the paper | Journal Name |
|-----------|---|--|------------------------------|
| 1 | Mr. Akshay Agrawal (Assistant Professor) | 11 | International |
| 2 | | Journal for Research in | |
| 3 | | e | Engineering Application & |
| 4 | | Generating Cloud Monitors From Models To Secure Clouds. | Management (IJREAM) |
| 5 | | Securing Cloud Data Under Key Exposure. | |

| Sr. No. | Name of the Faculty | Certification Courses Detail |
|------------|---------------------|--|
| 1 | Mr.Allan Lopes | NPTEL online certification on "Problem Solving through Programming in C", Jan to April 2020 (12 week course) |
| 2 | Mrs.Yogita Mane | Coursera Certification on "SQL for Data Science" by university of California, 27/6/2020 |
| 3 | Mrs. Mudra Doshi | Completed online FDP on "Blockchain" by AICTE Training and Learning Academy at Jntua College of Engineering(Autonomous),Pulivendula,from 22/6/2020 to 26/6/2020 |

Certified Courses

Similarly, even the students have taken interest in expanding their skillset.

| No. | Name of the Student | Date of the course | Name of the course | Certificate name |
|-----|--|--------------------|--|---------------------|
| 1. | Aditi Ashwin Patel | May 10, 2020 | Standard precautions: Waste management | WHO |
| 2. | | June 13, 2020 | Introduction to project Management | |
| 3. | Dimple Jaya Jadhav Aash Rajiv Jain | June 11, 2020 | Cyber security Compliance Framework & System Administration | |
| 4. | | June 14, 2020 | Introduction to Cyber security Tools & Cyber Attacks | |
| 5. | | June 5, 2020 | Programming for everybody (Getting started with Python) | |
| 6. | Parth Joshi | May 5, 2020 | Initiating and planning projects | |
| 7. | Tejas Upadhyay | May 16, 2020 | Custom Prediction Routine on Google AI Platform | |
| 8. | | June 14, 2020 | Neural Network from Scratch in Tensor Flow | |
| 9. | Bhavya Atul Shah | May 4, 2020 | Programming for Everybody (Getting stated with Python) | Coursera |
| 10. | Neha Dubey | May 26, 2020 | Programming for Everybody (Getting stated with Python) | |
| 11. | | June 02, 2020 | AI For Everyone | |
| 12. | Jinal Lalit Padhiar | June 07, 2020 | Market Research and consumer behavior | |
| 13. | | May 26, 2020 | Introduction to SEO | |
| 14. | Samarth Soni | May 25, 2020 | SEO Fundamentals | |
| 15. | | June 1, 2020 | Advanced contents and social tactics to optimize SEO | |
| 16. | | May 21, 2020 | Introduction to SEO | |
| 17. | | June 8, 2020 | Advanced SEO Strategies | |

<u>Certified Courses</u>

| No. | Name of the Student | Date of the course | Name of the course | Certificate name | |
|-----|---------------------------|--------------------|---|----------------------------|--|
| 18. | | May 29, 2020 | Optimizing a website for search | Coursera | |
| 19. | • | | Website Optimization Client Report Project | | |
| 20. | Samarth Soni | June 10, 2020 | Search Engine Optimization (SEO) | | |
| 21. | | May 16, 2020 | Social Media Marketing | IIDE | |
| 22. | | April 30, 2020 | An Entire MBA in one course | | |
| 23. | | May 23, 2020 | Build Responsive Real World Websites with HTML5 and CSS3 | | |
| 24. | Vedangi Shewale | May 15, 2020 | The complete SQL Bootcamp 2020 | Udemy | |
| 25. | | May 10, 2020 | UX Design Essentials - Adobe XD UI UX Design | | |
| 26. | Sonia Bagalkot | June 24, 2020 | UX Design Essentials - Adobe XD UI UX Design | | |
| 27. | Meet Bhanushali | June 09,2020 | Problem Solving (Basic) | HackerRank | |
| 28. | Vedangi Shewale | April 21, 2020 | Resume Writing & Cover Letter | TCS iON | |
| 29. | | Mar 28, 2020 | Java tutorial course | | |
| 30. | | April 13, 2020 | SQL Fundamentals course | | |
| 31. | Satish Aoudichya | April 18, 2020 | HTML Fundamentals Course | SOLO LEARN | |
| 32. | | April 19, 2020 | JavaScript Tutorial | | |
| 33. | | May 02, 2020 | Python 3: Tutorial Course | | |
| 34. | Manashvini Yadav | April 17, 2020 | The fundamentals of digital marketing | Google Digital Unlocked | |
| 35. | Sonia Bagalkot | May 12, 2020 | Frontend Fundamentals | Pirple.com | |

<u>Internships</u>

Internships are a proven way to gain relevant knowledge, skills, and experience while establishing important connections in the field. Internships are also a way to get your feet wet and find out if a specific field is something you could see yourself doing full-time.

Importance of Internships:

Internships may be completed during fall or spring semester or full time over the course of the summer. Unpaid internships may be easier to get but may also pose problems if making money is necessary, especially during the summer. There are many who cannot afford to work for no pay, so they are forced into doing menial jobs such as wait staff or bartending to work their way through college.

Here are some of the students who are working as Interns through WFH Service in this lockdown situation.

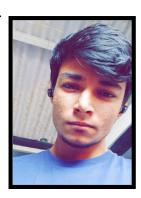
| No. | Name of the Student | Internship Title | Company Name | Duration |
|-----|------------------------|----------------------------------|--|-----------|
| 1. | Aash Jain | Web Developer | Travelpackers | 3 months |
| 2. | Sitala Vishwakarma | Android Developer (Junior) | Aprical Technologies | 3 months |
| 3. | Satish Aoudichya | Trainer and Mentor | Static.Int Educare | 1 month+ |
| 4. | Atharv Mungikar | Data Entry and research | Fandom Realm | 1 week |
| 5. | Aashka Doshi | Campus Ambassador | IIT Varanasi | 3 months |
| 6. | Aditi Ashwin Patel | Web Developer | Dr. Hetal Shah Physiotherapy's Clinic | 1 month+ |
| 7. | Rishav Nabin Mandal | Back end | RenDigitizing | 4 months+ |

Fun Achievements

Amongst the tension & chaos around the COVID-19 Lockdown Situation, what better way to relive all that tension and fear by indulging in a healthy & competitive game of Call of Duty: Mobile?

Activision revealed the COD: Mobile World Championship 2020 Tournament, a lengthy esports tournament features more than \$1 million in total prizes.

There was a COD: Mobile tournament organized by Squad OcuLus ,where 8 top clans of India were in the first round and the FY3K squad led by Meet Bhanushali with Jaskirat Sood, both from BE IT won both the tournaments.



Meet Bhanushali a.k.a virambhadra

Scan to watch their match:

FY3K vs Titans: FY3K vs BlackOps:



Jaskirat Sood a.k.a jaskiratsood



Scan for previous edition



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