



2024
EDITION



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ACE THE TECH

ASSOCIATION OF COMPUTER ENGINEERING STUDENTS

PVG'S COLLEGE OF ENGINEERING & TECHNOLOGY & G.K PATE (WANI) INSTITUTE OF MANAGEMENT

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ACES Core Committee Members

A.Y.2023-24

Sr.No.	Portfolio	Name
1	Chairman	Prof.U.M.Kalshetti
2	Staff Coordinator	Prof.M.S.Pokale
3	General Secretary	Shivendra Deshpande
4	Joint General Secretary	Atharva Ostwal
5	Treasurer	Samruddhi Dhon
6	Team Technical	Pratap Kadam
7	Team Event	Prathmesh Gawali
8	Team Notification	Vaishnavi Choudhari
9	Team Web	Swaraj Mhatre
10	Team Design and Production	Pradnya Dengale
11	Team Editorial	Yashshree Kirad
12	Team Marketing	Rutvij Deo

Introduction

Introducing ACES, the Association of Computer Engineering Students—a vibrant student-owned committee, primarily for students. Established in the 2017-2018 academic year following ASCI's reorganization, ACES is committed to providing an engaging space for academic and personal growth.

Embedded in the motto "Connect, Innovate, Inspire," our guiding principles underscore our commitment to fostering connections between students, alumni and industry professionals. We aim to inspire creativity and guide individuals to achieve their goals.

Over the years, ACES has hosted a wide variety of technical and non-technical events, combining fun and education for participants. Highlighting our success are events like CODE MODE, coding competitions and festive Diwali celebrations. In addition, our department offers informative internship workshops, hackathons, guest speakers, and networking events.

At the core of ACES is a passion for what we do, reflected in our well-designed programs aimed at encouraging students to explore their interests and develop new skills. We are proud of our progressive and accommodating approach, continuing to create new opportunities for students' intellectual and professional growth.

Whether your passion lies in computer technology or you simply seek to explore new opportunities and connect with like-minded individuals, ACES remains an essential destination. Join us and become an integral part of our dynamic community dedicated to nurturing student success, both academically and professionally.

- **Diwali Fiesta**

The Diwali Celebration by ACES dives into the vibrant world of Diwali—an event that combines technical and non-technical wonders with simple textiles. For the popular year 2023, ACES boasted names like Code Mode, RESPAWN, DESIGN HUNT, Short Flick Bash, MINDBOOTH and PHOTO FEST, a testament to its impressive offerings.



RESPAWN, a thrilling gaming event, showcased popular games like Fall Guys, BGMI and the new addition DESIGN HUNT. Participants displayed their design skills by crafting striking posters and certificates. Winners not only received praise but also earned a chance to join our ACES Committee. The intriguing approach MINDBOOTH beckoned participants to embark on a blogging journey, exploring both technical and non-technical areas. The cream of the crop, the most amazing blogs, have found a coveted spot in our prestigious magazine.

Short Flick Bash: Where filmmakers rose to the challenge and made short films that captured the essence of Diwali fun, tradition and harmony. A stage of sorts for dramatic storytelling, with a bunch of wildcard reels adding a bit of cinematic magic.

But stealing the spotlight was the spectacular Photo Fest—an event where students showcased their photographic talents, capturing incredible moments that captured the spirit of Diwali. Not only did the winners bask in the glory of an Instagram shout-out but received a well-deserved certificate of appreciation and attractive prize money.

• **Algorythm**

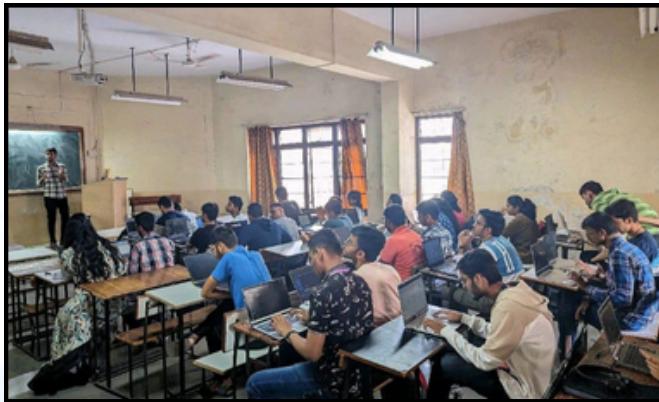


ACES presents Algorythm, a thrilling two-day extravaganza packed with an array of captivating tech and non-tech activities. With a rich history of successful events featuring games like Pocket Tanks, FIFA, Cricket, Need For Speed, and engaging tech challenges like Reverse Coding, we are back with a few more exciting events and ideas.

This year, we're elevating the experience by not only featuring classic tech games such as Blind Coding, Shot Coding and Tech Dumb Charades but also introducing new non-technical events like Treasure Hunt, GeoGuesser, Anime Quiz, Snake and ladder and Obstacle Race. Our priority is to ensure every participant enjoys an immersive and enjoyable experience.

Join Algorythm for friendly competition, connections with like-minded individuals, and a chance to showcase your skills. It's not just about fun; it's a fantastic opportunity to explore and learn.

- **Workshops**



ACES took the lead in orchestrating a trilogy of workshops that left participants enthralled and empowered. The C++ workshop, led by proficient students in the field of high-performance programming, provided participants with invaluable insights into efficient coding practices. Participants joined hands-on sessions where they sharpened their C++ skills.

Led by seasoned professionals, the Blockchain workshop demystified decentralized technology, offering insights into its applications and impact on industries. Participants gained a profound understanding of blockchain intricacies.

Hacktoberfest! - Coding enthusiasts from all walks of life gathered for a collaborative journey into the world of open source.

The workshop celebrated community, collaboration, and achievement beyond code. Attendees found joy in contributing to open-source projects, leaving a lasting digital mark. It offered an immersive experience unlocking the full potential of the versatile programming language.

Attendees explored Pythonic code, powerful libraries, and gained hands-on experience to enhance their skills. ACES empowered individuals for the evolving tech landscape.

- **Code Mode**

Competitive Programming stands as an intellectually stimulating challenge where participants, known as competitive programmers, tackle logical problems using their coding expertise. The primary aim revolves around crafting computer programs that effectively solve intricate mathematical or logical dilemmas.

CODE MODE by ACES on Hackerrank challenges budding coders to solve six

tough problems in two hours. Any programming language is allowed, and winners are recognized in FE, SE, TE, and BE categories. Companies seek candidates who have demonstrated prowess in handling complex coding challenges. Engaging in competitions like CODE MODE can furnish you with invaluable experience, elevating your prospects of grabbing the attention of leading employers.



About College

COLLEGE AND COMMITTEE EVENTS



SAMSARA 2K24

The word 'SAMSARA' means unite, celebrate and rejoice. It's the rebirth of college legacy. The college fest was inaugurated amidst great enthusiasm and excitement. The ceremony began with the unveiling of the poster for the event. Samsara2k24 was an exciting event that brought together students and faculty from all departments celebrate their college life and have a great time.

30th January- Cosplay Day

Cosplay Day: This day was dedicated to bringing the entire campus together to celebrate our college's unique spirit. Vibin' vivace- The vibin' vivace was a show of live music, poetry, storytelling, etc forms of literature. Funfair- In that we had food stalls, various games, small business stalls where people paid reasonable money for amusement or trying to win prizes in games.

31st January- Traditional Day

Traditional Day:- It was a day to flaunt traditional Indian attire and feel the vibrancy of the culture. The judges roam around the campus looking for the most appropriate attire. Dhol Tasha Vadans- Dhol Tasha is said to have been an integral part of Maharashtra We had an event of Dhol Tasha in which 25 dhol vadak and 9 tasha vadak were there. Day Ended : Party Night By MH43 INDIA

29 th January- Tie and Saree Day

Tie and Saree Day:- It was a moment of joy and celebration as the college was gearing up to celebrate Tie and Saree Day. This event was an excellent opportunity for everyone to come together and enjoy the festivities. A prize was given for outstanding attire.

1st February - Prize Distribution and Grand Dinner

Prize Distribution to all the winning teams from different games arranged in samsara and ransangram. Grand Dinner was arranged which has provided eminence joy of gate together.

MEGA CODE MODE 2024

Saturday, 31st March 2024.

Code Mode was a competitive coding competition held by ACES PVGCOET for all undergraduate engineering students. The Hacker rank platform was used for the competition. The competition was organized into three categories. The motive behind the competition was to test, showcase and strengthen the coding skills of participants.

Winners:

Category FE-SE

Pratiksha Bhure

Chandraprakash
Kulthe

Category TE-BE

Imran Shaikh

PYTHONISTA 2023-24

24 Sep 2023

ACES PVGCOET had arranged a Python language workshop called “Pythonista”. A workshop was open for students from all faculties interested in learning Python. The mode of workshop was kept online. A Q&A session was arranged after the workshop to resolve the queries of participants. The purpose behind organizing this workshop was to familiarize participants with concepts of Python language. Participants who attended the whole workshop also got a certificate of participation.

Speakers:

Mr. Avneesh Jadhav. [PVGCOET, SE Computer]
Mr. Akash Joshi. [PVGCOET, TE Computer]

RANASANGRAM 2k24

‘Ransangram’ is a prestigious sports event of the college. It was organised under ‘Samsara 2k24’. Under Ransangram Annual sports event, collectively ten inter departmental sports competition were organised. Date: 26th, 27th and 28th January 2024 Sports: Basketball, Football, Volleyball, Dodgeball, Cricket, Kabaddi, Athletics , Badminton, Table tennis and Chess Participation: Around 1500 students
Winner: ENTC department

Clubs and Organizations in the College :

- 1) GDSC PVGCOET: Google Developer Students Club



- 2) TEDx PVGCOET



- 3) DHRUVA CLUB: Personality Development Club



Startups & Innovation

Bangalore-based Exponent Energy might have come up with a way to deliver 15-minute rapid charging for electric vehicles. The startup, which just raised a \$13 million Series A, relies on a combination of its proprietary battery pack and charging infrastructure to achieve such a feat.

Exponent Energy's business model is geared toward OEMs building commercial EVs for fleet purposes. Ideally, the company works with the OEM to integrate its battery pack, or e^pack, that can then be charged quickly via Exponent's network of chargers, or e-pumps.



Earlier, Exponent announced its first partnership with Altigreen, an Indian electric cargo vehicle manufacturer, launching the Exponent-enabled Altigreen neEV HD, a three-wheeler that both companies say can be fully charged, from 0% to 100%, in 15 minutes.

After spending 7 years helping build Ather Energy as its Founding Partner & Chief Product Officer, Arun Vinayak decided to start once again.

The root cause of his decision was the desire to build something that would allow every type of vehicle to go electric today. He hit up former colleague & HUL supply chain manager, Sanjay Byalal and over copious cups of coffee, an idea began brewing with the vision of simplifying energy for EVs. Its audacity automatically pulled in a team of trusted engineers and Exponent was born.



Exponent Energy's journey began in December 2020 with a vision to revolutionize energy solutions. By April 2021, they achieved a significant milestone by successfully testing rapid charging on a single LFP cell in-house, showcasing their commitment to innovation. Building upon this success, they advanced to testing rapid charging on a module in May 2021, solidifying their position as pioneers in the field. July 2021 marked a pivotal moment as Exponent Energy demonstrated the practicality of its technology by rapidly charging a 400V e-pack on a 4W vehicle, paving the way for real-world applications. In December 2021, their potential was recognized as they raised \$5 million in a pre-Series A round of funding, fueling their mission further. By June 2022, Exponent Energy deployed its first e-pump, ushering in a new era of energy efficiency and sustainability.



Kaivalya Vohra

Audit Palchia

Zepto, a Mumbai-based company founded by Audit Palchia and Kaivalya Vohra, made a name for itself by delivering groceries to customers in just 10 minutes. The company is considered one of the fastest-growing players in the fast-delivery business, with a particular focus on delivering groceries before the end of the year.

Zepto has changed the grocery delivery system in India with its lightning-fast service that delivers products to customers within 10 minutes. This is made possible by the company's use of mini-warehouses and dark storefronts, allowing for efficient and speedy delivery. The company is dedicated to maintaining unbeatable customer loyalty and delivering products to their doorsteps on time.

In 2021, Zepto worked with more than 86 dark store owners across 13 different areas and completed over one million deliveries. Zepto like any other startup,



challenges, the company has managed to stay afloat and is currently doing well. It has had to face numerous challenges in its entrepreneurial journey.

Trust, honesty, and dignity are crucial aspects of any organization, and Zepto was not an exception. The company had to deal with instances of impropriety among its founders and investors, which resulted in FIRs and court battles to settle disputes.

Zepto has ambitious plans for growth in the future. One key strategy is to increase the number of Dark Stores, which will help to drive up the volume of orders. As the company gains a

zepto

larger customer base, Zepto plans to introduce convenience fees. However, the intense competition in the market poses significant challenges to Zepto.

Despite this, it's remarkable how two 19-year-olds have disrupted established players like Big Basket and Blinkit. Anticipating dynamic development, Zepto may consider going public in the next 2-3 years.

Tech Blog

Digital Footprints

-Parag Jadhav

In an age where digital connectivity is omnipresent, our lives seamlessly integrate into the vast fabric of the internet. Every click, like, and share contributes to the intricate web known as our digital footprint. This digital trail, a culmination of our online interactions, is of paramount importance, particularly as concerns about privacy and online security take centre stage.

A digital footprint encapsulates the entirety of an individual's or entity's digital information and activities. From social media engagements to online purchases, our digital identity is sculpted by the following components:

- Social Media Presence
- Online Searches
- Online Purchases
- Email Correspondence
- Website Visits

The creation of our digital footprint goes beyond the visible interactions. Hidden layers of metadata, cookies, and tracking mechanisms play a significant role.

To mitigate risks associated with digital footprints, individuals can adopt the following security measures:

- Employ Virtual Private Networks (VPNs): Enhance online privacy by encrypting internet traffic and masking IP addresses, especially on public Wi-Fi networks.
- Utilize Encrypted Messaging Apps: Ensure secure communication by using apps with robust encryption protocols, such as Signal, Telegram, and WhatsApp with end-to-end encryption.
- Adopt Secure Browsing Practices: Enforce online security through practices like enabling HTTPS, regular updates, cautious clicking on links, and implementing strong passwords with two-factor authentication.



In conclusion, our exploration into the intricate world of digital footprints has unveiled the profound impact of our online interactions on privacy, security, and personal well-being. As we navigate the labyrinth of metadata, cookies, and tracking mechanisms, it becomes apparent that awareness and informed decision-making are paramount in safeguarding our digital identities.

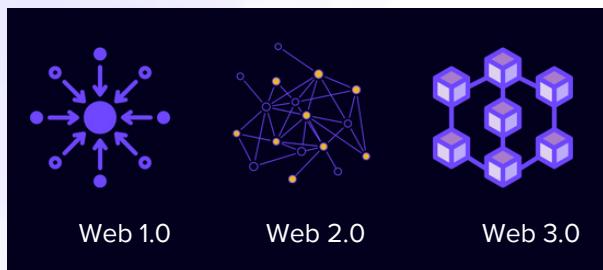
Tech Blog

What is Web3?

-Abhijit Tambade

The internet has evolved rapidly over the past few decades. From simple web pages to complex social media platforms, the way we use the internet has changed dramatically.

But the underlying architecture of the internet has remained largely the same. Web3 is a new vision for the internet, one that is more decentralized and secure.



It is built on blockchain technology, which is the same technology that powers cryptocurrencies like Bitcoin and Ethereum. Blockchain is a distributed ledger system that is secure and tamper-proof. This makes it ideal for building a decentralized internet.

In Web3, users have more control over their data and privacy. They can choose to share their data with only the websites and services they trust. And they can be compensated for sharing their data.

Web3 is still in its early stages of development, but it has the potential to revolutionize the way we use the internet.

Here are some of the benefits of Web3:

- 1. Decentralization:** Web3 is not controlled by any single entity. This makes it more resistant to censorship and fraud.
- 2. Security:** Web3 is built on blockchain technology, which is very secure. This makes it less vulnerable to cyberattacks.
- 3. Privacy:** Users have more control over their data and privacy in Web3. They can choose to share their data with only the websites and services they trust.
- 4. Transparency:** All transactions on Web3 are recorded on the blockchain. This makes it more transparent and accountable.



Web3 is a new and exciting vision for the internet. It has the potential to revolutionize the way we use the internet, making it more decentralized, secure, private, and transparent.

Non-Tech Blog

How to Capture Star Trails?

-Atharva Chaudhari

What are star trails?

Star trails are mesmerizing streaks of light formed when capturing long-exposure photographs of the night sky. They occur due to the Earth's rotation, causing the stars to appear as continuous lines instead of points of light. They look different from various parts around the world. The position of the stars is the main reason for it. Some of the stars seem stationary as they lie on the Earth's axis of rotation.



Requirements for capturing Star trails

Capturing stunning star trails requires specific equipment and considerations due to the nature of long-exposure astrophotography. Here's what you'll need:

1. Camera Device: Preferably DSLR or Mirrorless Cameras having high range of shutter speed and manual exposure settings.

2. Sturdy Tripod: A sturdy tripod prevents camera shake.

3. Remote Shutter release or Intervalometer: To trigger the shutter without physically touching the camera device.
4. Patience and time
5. Fully Charged Batteries: Make sure your camera device battery is fully charged.
6. Dark Sky Location: Find a location far from city lights and light pollution.



Steps Involved in capturing Star trails:

Here's a basic guide to capturing star trails:

1. Set Up: Mount your camera securely
2. Settings: Set your camera to Manual mode. Use a wide aperture (f/2.8 or lower)
3. Focus: Switch to manual focus and set the focus to infinity.
4. Remote Shutter Release
5. Experimentation: Take test shots
6. Post-Processing: Use software like Adobe Photoshop to stack multiple images together.

Why to capture startrails?

- Artistic Expression
- Astrophotography Practice
- Connection to the Cosmos
- Documentation of Celestial Movements
- Educational Purposes
- Personal Enjoyment and Relaxation

Non-Tech Blog

Stock Market

The stock market comprises exchanges where shares of publicly held companies are bought and sold, alongside over-the-counter (OTC) marketplaces where securities are traded directly between investors. These activities are governed by regulations, both on formal exchanges and OTC platforms, facilitating transactions in publicly traded securities.

When to Start Investing:

Starting investing early is beneficial as it allows more time for investments to grow, increasing both principal and earnings from interest or dividends. Three key principles for investors are to begin investing early, maintain consistent investments, and prioritize long-term growth over short-term gains.

Where to invest:

When considering investing, one has the option to invest in physical assets like real estate, gold/jewellery, commodities, or financial assets such as fixed deposits with banks, small saving instruments with post offices, insurance/provident/pension fund, as well as securities market-related instruments like shares, bonds, debentures.

Why trade in Stock Markets:

Investing in the stock market offers advantages such as requiring less initial investment compared to property ownership, demanding minimal time commitment, providing quick access to cash, and offering straightforward profit opportunities.

Before investing in Stock market:

Before diving into investing, it's essential to grasp the fundamentals of the stock market. Our resources offer informative articles and tutorials covering basic concepts and common jargon used by traders. Whether you're trading on exchanges like BSE, NSE, LSE, or NYSE, understanding these terms is crucial for success.



Equity Investments:

Investing in shares means becoming a partial owner of a company, with the potential for their value to increase over time. Shares, also known as equities, have historically outperformed other investment options in the long run. While they can be challenging, investments in certain shares over time have shown to provide higher returns. However, it's crucial to study and understand shares thoroughly before investing, as not all equity investments guarantee high returns.

Short & Long Term Options for Investment:

- Short Term
- 1. Savings Bank Account
- 2. Money Market or Liquid Funds
- 3. Fixed Deposit with Banks
- Long Term
- 1. Post Office Savings
- 2. Public Provident Fund
- 3. Bonds
- 4. Mutual Funds

Tech News

Esports Gains Momentum as Official Medal Sport in Asian Games 2026

In a groundbreaking move, esports is set to continue its prominence on the global stage, securing its position as an official medal sport in the upcoming 20th Asian Games Aichi-Nagoya 2026. The announcement was made during the 42nd Olympic Council of Asia General Assembly held in Bangkok on July 8, 2023.

Esports made its debut as a demonstration sport in the 2018 Asian Games and later emerged as a medal event in the 2022 edition held in Hangzhou, China. The decision to include esports as a medal sport in the 2026 Asian Games underscores its growing significance and value in the sports community, according to the Asian Esports governing body, AESF.

The AESF affirmed its collaboration with AINAGOC and local partners for the success of the esports program, aiming to inspire global players.



India plans to send a full esports team to the 2026 Asian Games, competing in Dota 2, FIFA 22, Street Fighter V, and League of Legends. Lokesh Suji, ESFI director and AESF vice president, welcomed the move, stressing the need for improved infrastructure, education, training, and awareness in esports. Suji emphasized providing athletes with quality equipment and resources for international performance enhancement.

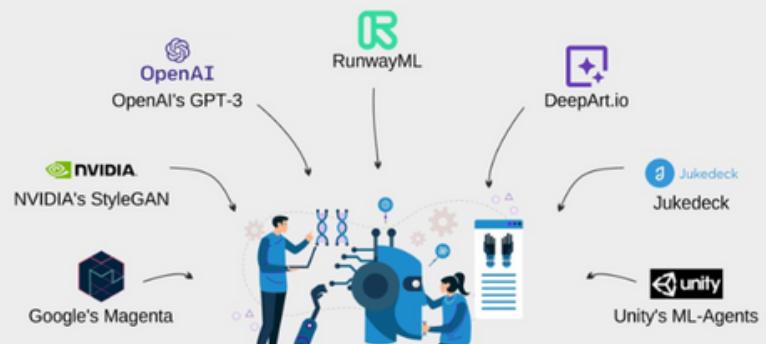
The expansion of esports in the Asian Games showcases its diverse nature, highlighting various dimensions of skill, strategy, and teamwork exhibited by athletes. The move is poised to deliver a comprehensive experience for spectators and further solidify esports as a major player in the global sports arena.

Recent statistics from Windows of Opportunity's report indicate a steady rise in competitive esports players in India. In 2021, the country boasted 600,000 esports players, a number that surged to 1,000,000 by the end of 2022. Projections suggest this figure will skyrocket to an impressive 2,500,000 in 2023. Additionally, the number of esports teams in India is expected to grow from 7 to 10 by the same year, reflecting the widespread and escalating interest in the dynamic world of competitive gaming.

Generative AI: Harnessing the Power of Creativity

Generative artificial intelligence (AI) refers to a subset of AI technologies that can create original content such as text, images, audio, and video. Powered by machine learning algorithms, generative AI systems can produce novel outputs based on patterns learned from training data.

Unique and powerful generative AI tools



Recent advancements in generative

AI, particularly large language models (LLMs) like GPT-3, have captured the public imagination with their ability to generate human-like text. Applications like ChatGPT have demonstrated the tremendous potential of generative AI to automate tasks and augment human creativity. However, these technologies also raise concerns about misuse, bias, and their impact on jobs.

How does it work?

Generative AI systems are typically trained on vast amounts of data - often billions of words, images, or audio samples. These systems learn the underlying patterns and relationships within the training data using machine learning techniques like neural networks.

When presented with prompt or conditional information, generative AI systems can then produce original outputs that conform to what they have learned. For example, an image generator like DALL-E can produce novel images based on a text description, while a language model like GPT-3 can generate text conditioned on a given prompt.

Recent developments include:

ChatGPT's launch in 2022 garnered attention for its automation capabilities.

Tools like DALL-E 2 and Stable Diffusion create photorealistic images from text prompts, aiding design and media.

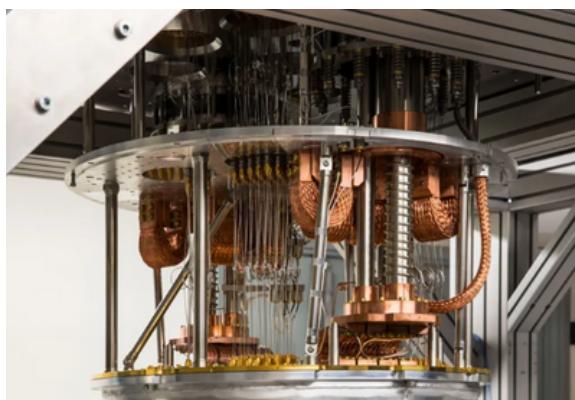
Advancements in video and audio generation, seen in tools like Make-A-Video and Jukebox, promise automated content creation.

Though challenges like bias and trustworthiness remain, efforts to enhance generative AI's performance, safety, and transparency persist.

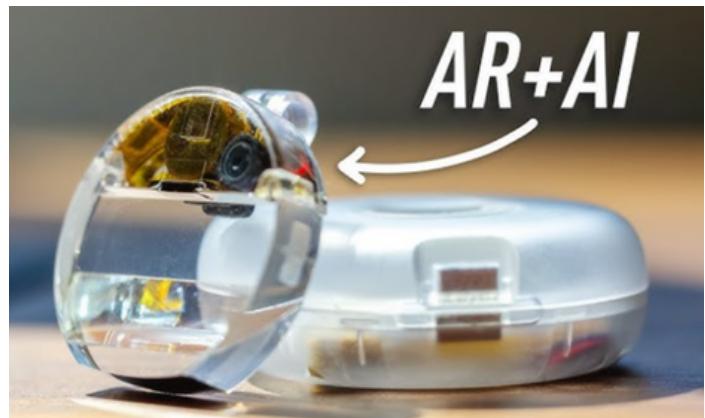
Quantum Computing: Unlocking Wonders Across Different Fields!

Quantum computing merges quantum mechanics, computer science, and mathematics, harnessing subatomic particles' ability to exist in multiple states simultaneously. Unlike classical bits, where two bits yield four possible states but only one at a time, two qubits in a quantum computer can concurrently represent all four states. Surpassing traditional supercomputers by 158 million times in speed, quantum computers perform computations in minutes that would take classical counterparts thousands of years. The first quantum computer was created in 1998 by Isaac Chuang of the Los Alamos National Laboratory, Neil Gershenfeld of MIT, and Mark Kubinec of UC Berkeley.

Atom Computing, a California start-up, has unveiled the world's first quantum computer surpassing 1000 qubits, a significant leap beyond the previous record-holder. While sheer qubit quantity doesn't guarantee improved performance, Atom Computing's design represents a major advancement in quantum computing capabilities. Looking ahead, their focus on achieving fault tolerance, requiring a substantial number of programmable qubits and dedicated error-correcting qubits, promises to revolutionize the field and unlock new possibilities.



Real Life Edith? Monocle glasses :



Monocle Clip-On, an open-source AR gadget, is designed to attach to common reading glasses, offering a pocket-sized wearable for modification and hacking. Developed by the tech team at Brilliant Labs, Monocle features a crystal-clear circular silhouette housing a display, camera, microphone, PCB, and battery without requiring wires or connectors. With Bluetooth connectivity to mobile phones and compact design enhanced by handy sensors, it offers approximately two hours of runtime with its 70 mAh battery, rechargeable up to six times in its 450 mAh charging case.

Its applications span various fields, from language learning with real-time translations to medical training by overlaying anatomical structures onto real-world patients. Additionally, it aids skill development with step-by-step instructions for learning new activities. With ongoing development by Brilliant Labs and collaborations with companies like Vuzix and Microsoft, Monocle's open-source nature fosters a multitude of conventional and non-conventional applications.

Alumni Journey

-Shreya Gore

We have Shreya Gore who was the General Secretary of ACES, she has embarked on a journey to pursue a Master's in Computer Science at Arizona State University. She have recently secured a position at Goldman Sachs, showcasing her dedication and talent. Without further ado, let's hear from her as she share insights from her journey and aspirations for the future.

You have been a part of ACES since your second year and have also served as a General Secretary, how being in a committee helped you in your college years, how it helped to develop yourself?

The experience in the ACES was invaluable due to the diverse challenges faced, such as coordinating with different teams, resolving internal conflicts, and organizing events as the General Secretary. Despite limited event opportunities due to COVID-19 lockdowns, the experience provided valuable lessons in teamwork, conflict resolution, and time management. Participation in such committees is beneficial beyond academics, offering personal growth and skills applicable to future endeavors, including moving abroad. These experiences are crucial for writing statements of purpose (SOPs) for admissions, highlighting the ability to manage academic and extracurricular responsibilities effectively.

First days are always special. Tell us about your first day in college. How does it feel when you remember your first day in college?

The 6th of August 2018 stands out as a challenging day, marked by feeling isolated and unable to connect with others upon starting college. Despite initial struggles, significant personal growth occurred over six years, notably in communication skills and networking abilities.

The first semester was solitary, focusing solely on academics, but by the second semester, efforts to engage with peers began, leading to involvement in various committees like ACES. This involvement expanded networking opportunities beyond the computer field, reflecting a journey of transformation. However, the progression was interrupted by a lockdown in the third year.

Do you think ACES shaped you to become a shy person to a talkative person?

Yes ACES played a huge role in from zero confidence to whatever i have right now. When I was in the technical team of ACES we were assigned to curate the questions for the code mode. So at that time i got to know about leetcode like i had an idea but after that i dive into that. So that was one incident, there are many more.

Every collegiate has a senior who becomes your mentor throughout the journey, who was that senior for you?

Khushbu, the joint General Secretary of ACES, along with Parth and several others from the mechanical department, played pivotal roles in guiding the speaker during their college journey. Initially interested in Android development rather than web development, they were later encouraged to learn JavaScript and TypeScript. Seniors like Parth provided valuable insights and pushed them to explore Arduino and other technologies. The speaker emphasizes the importance of learning from seniors who possess valuable experience and knowledge, urging others to seize opportunities to learn from them.

How did you manage your college studies and extracurricular activities?

I remember I used to go to college in my first semester from 6:30 a.m. to 6:00 p.m. I I did a lot of basketball very extensively but from 2nd year I just said some matches here and there and after college I used to do the work related to ACES and all the other clubs which I was part of. I used to study very less but I did a lot of extra curricular activities. It's not like I studied a lot but I used to be in college and yes explored a lot of things during the time I was in college but after lock down I was at home only I that changed many things. It's just that do all the things you can college is indeed a Magic. You actually get busy a lot and honestly speaking that is really refreshing rather than sitting in the corner just doing studies.

Can you please tell us more about your masters journey?

I graduated from PVG on July 22 and came to the US to Arizona on August 22 so I should have completed my Masters in May 24 technically but I was able to complete my graduation in 1.5 years only, that is on November 23. I am graduate right now but I will start my job from January.

You know there are times when things don't workout so how do you tackle those situations?

It is tough, things are not easy in the USA . It doesn't seem like that when you are in India, like the grass is always cleaner on the other side.

This is not something which you will see on social media but the things are really more difficult than what you can imagine you need to struggle a lot in the financial aspect as well but when you get it job once you start earning then you might find a little bit of balance between your wishes and your account. Being a student you compare everything with Indian rupees so every single thing you want to buy seems very expensive as compared to India. It also affects your mentally because living in a different country altogether is quite difficult because you don't have a SIM card you don't have a bank account you have to wake up from the jet lag you have faced and go to the bank open yourself and account and by a sim card so that you can contact someone back home. Educationally also it is tough because you cannot cheat here if you are got cheating then you get flagged here flagged means there is a mini court that's setup and you have to prove that you have not copied in exam otherwise All the credits you have earned till this semester will become zero and you will be sent back to India.

Even though the lectures are on only 2 days of the week was in assignments and deadlines constantly you have something coming on some project some assignment some homework some demo some presentation etc. These people don't have the concept of Campus placements in here so you have to set and apply for various companies everyday for 2 to 3 hours. Your college cannot guarantee you placement no matter how repeated your colleges no matter how and the underprivileged your college is you have to get placement on your own calibre. It feels overwhelming initially but with time you get used to it. You learn to sort your priority list and you know what you have to do and what you have to avoid and once you know that it becomes clear what you need to do.

You are on visa so you have to make sure that there are not things which will stop you from residing in USA or being able to do job in the USA, but yes it is you a lot you learn a lot, You go through a lot of things you learn to live with uncertainties. Managing time is something which I learned. One thing which I learned is how to fit everything in a 24 hour day and for that matter I also learned to do the house work and now I don't consider it as a big deal but yes during my first semester was Overwhelming a lot. But during all this time we had our cheer up parties, we went roaming, we went to clubs which helped a lot.

We are in the era where new technologies are coming everyday so how do you keep up with that, what are your strategies for that and even for internships and placements?

I am not much updated with the scenario but mostly it is on Instagram or me talking to our seniors. They know a lot of stuff I don't know how but maybe because they have working And they might be talking to people who are this talking about technologies and discussing about how to level up their game in there careers. I would say my sources are seniors. Talking to them and getting everything from them, I still do that. I feel it just makes Googling easier. But yes you to get No a lot from social media like LinkedIn or X or Github. Even extensions like simplify internship or placement resume.

Did you got the exposure you needed to live abroad before going abroad? what things do you think you need to know when you decide to go abroad?

To be honest, you need to learn data structures and algorithms to help yourself when you are Abroad studying for MS which I would recommend you to do now itself. Just start using Leetcode. Just know your worth, know what package you deserve and work for that.

Can you share one memory from your college start you will cherish lifelong.

Honestly speaking I didn't go to college much like I went to college during my first episode and after that we had talk town and then we went to final year offline directly. that time we didn't attend college, But we organized a lot of outings for ACES, something which I absolutely loved. Another Incident which I remember is when some NACC accreditation in our college and Marathe ma'am had told us to attend college compulsory on that particular day. And I don't know what got to us that day and our whole class decided to Mass bunk. We went to college, showed our faces and left. And then after that we had to listen to our long shouting session from Marathe ma'am. After that we did not ever dare to do something like that. I don't know why we did it but We did it. My most favorite memory is one when we went to a place near Karishma Cafe where we played a lot of things and had food, something which I really remember very clearly and absolutely love. That was the only scope of enjoyment for us and 19 but yeah it was memorable And also the night out which we had at my place. That was very impromptu B\but that was also memorable. You are doing college for 4 years in offline mode, I insist you enjoy it. You must do it.

What advice would you give to freshers to pursue a successful career?

Honestly speaking I am very small to answer all this. Just give your 100% and don't have regret of even 1% of what I would have done better. Do everything, try everything. Know what you are doing.

I would like to end this interview by saying thank you for giving us the time and telling us about your life abroad and the challenges that we may face in the journey and cooperating with us with this big time difference in play. We had a great time talking with you and learning about you and about your college and ACES. It was indeed a pleasure and we hope you continue to guides and support us and future thank you

Repo of the Month

“ Explore boundless creativity with unlimited web dev resources! From top-notch frameworks to vibrant communities, discover tools empowering devs to create without limits.”



Short Passage

Addressing Climate Change: India's Role in a Global Crisis

Picture this scorching summers getting even hotter, and monsoons bringing more than just rain like devastating floods that wash away homes and livelihoods. That's the reality of climate change here in India and over the globe. We've seen it in Kerala, where unprecedented floods wreaked havoc, leaving communities shattered. And it's not just there. Coastal areas like Mumbai are facing the double whammy of rising sea levels and more intense cyclones.

In recent years, the discourse surrounding climate change has shifted from mere speculation to urgent action, alarmed by the catastrophic events worldwide. Against this backdrop, global summits such as COP26 have served as pivotal platforms for nations to collaborate on mitigating the impacts of climate change and charting a sustainable path forward.

Recognizing the existential threat posed by climate change, the Indian government has embarked on ambitious initiatives aimed at both adaptation and mitigation. Initiatives such as the National Action Plan on Climate Change (NAPCC) and the International Solar Alliance (ISA) have been instrumental in spearheading India's transition towards a low-carbon economy.

In this collective endeavor, numerous organizations have emerged as key stakeholders, actively engaged in research, and grassroots mobilization. Prominent environmental NGOs like Greenpeace India and the Centre for Science and Environment and youth-led movements such as Fridays for Future India are the key activists working tirelessly to amplify the urgency of climate action and hold policy makers accountable.

As we deal with the tricky challenges of climate change, it's super important for everyone - government, citizens, and businesses tycoons to work together. Only by teaming up and putting in effort from all sides can we actually make a dent in fighting climate change and make sure our planet stays safe for the future.



Short Passage

The Future's Not Flat: It's Folded! A Guide to Flexible Displays

Ever wished your phone could transform from a pocket-sized companion to a wide tablet, all in the blink of an eye? Or maybe you dream of a device that seamlessly transforms between a phone and a mini-tablet, giving you the best of both worlds? Foldable phones are here to bring this futuristic vision to life. But what are their key ingredients?

Flexible displays. These aren't your regular phone screens made of glass. Instead, they're crafted from a special kind of plastic called polymer dispersed liquid crystal (PDLC). Unlike traditional glass, which is rigid and brittle, PDLC is a composite material made up of tiny liquid



crystal droplets suspended in a polymer film. When electric current is applied to this material, the pixels light up and display images. But real flex is its bendability, thanks to polymers which can bend, twist, and turn without breaking.

But the magic doesn't stop there. To ensure the screen folds flawlessly, a hinge mechanism is used. It uses multiple interlocking gears and tiny bearings to allow the phone to fold smoothly without putting too much stress on the display. Now, what about those delicate touchscreens?

Regular touchscreens depend on a grid of tiny wires behind the glass. Foldables tackle this by using a different approach. They employ a pressure-sensitive film that detects touches anywhere on the screen

Now, let's bring OLED into the picture. Most foldable displays utilize Organic Light-Emitting Diode (OLED) technology. OLED displays are self-illuminating, meaning each pixel generates its own light. This eliminates the need for a backlight, making them thinner and more flexible compared to traditional LCD displays.

Of course, this doesn't stop there. Researchers are constantly innovating new materials and designs. One promising area is the development of self-healing polymers that could automatically repair minor scratches on the foldable display.

Career Paths

Exploring Diverse Career Paths in Computer Engineering

- **Software Development: Crafting Digital Magic**
- Web Development: Become a digital architect, weaving visually stunning designs into functional websites that captivate and engage.
- Mobile App Development: Embrace innovation as you craft transformative smartphone applications, turning everyday devices into powerful tools of convenience and creativity.
- **Network Engineering: Connecting the Digital Dots**
- Network Design and Implementation: Architect digital infrastructures with precision, creating seamless pathways that unite users across the globe.
- Network Security: Assume the role of a digital guardian, safeguarding vital communication channels against the ever-evolving landscape of cyber threats.



- **System Administration Unveiled: Digital Guardians**
- Cloud Administration: Navigate the ethereal realms of virtual environments, optimizing resources to fuel efficient business operations in the digital age.
- Database Administration: Embrace the role of a digital curator, managing vast troves of data essential for organizational prosperity and growth.
- **Embracing Emerging Trends in Computer Engineering Careers**
- Machine Learning Engineer: Harness the power of algorithms to predict outcomes and reveal hidden patterns, shaping the future of intelligent systems.
- Natural Language Processing Specialist: Bridge the gap between humans and machines, enabling computers to understand and respond to human language with finesse and accuracy.
- Blockchain Developer: Forge the future of digital transactions with secure and transparent protocols, revolutionizing industries with decentralized solutions.
- Edge Computing Specialist: Pioneer real-time responsiveness as you design cutting-edge systems that bring data processing closer to the source, powering the next generation of smart technologies.

Gateway Exams: Paving Your Path to Future Studies and Career Opportunities

GATE –

The Graduate Aptitude Test in Engineering (GATE) stands as a prestigious examination that opens doors to countless opportunities in the field of engineering and technology. Designed to assess a candidate's comprehensive understanding of various undergraduate subjects, GATE serves as a gateway to higher education, research programs, and coveted career paths. Beyond academia, a commendable GATE score can unlock opportunities in public sector undertakings (PSUs) and serve as a benchmark for admission to esteemed institutions both in India.

The exam format includes multiple-choice and numerical answer type questions, with a standardized marking scheme. Candidates must strategize responses carefully as incorrect answers may result in negative marking. GATE serves as a rigorous yet fair evaluation of engineering aptitude and proficiency.



GRE –

The Graduate Record Examination (GRE) is a standardized test conducted worldwide, serving as a common measure for admission into graduate and business programs. It assesses candidates' verbal reasoning, quantitative reasoning, analytical writing, and critical thinking skills. The exam is administered year-round at authorized testing centres and can be taken multiple times. GRE scores are widely accepted by universities and institutions globally, making it a pivotal component of the graduate school admissions process.

The GRE consists of multiple-choice and essay questions, with a duration of about 3 hours and 45 minutes. Its adaptive nature tailors' questions based on a test-taker's performance, ensuring precision in evaluating abilities. Verbal reasoning assesses language proficiency and comprehension, while quantitative reasoning evaluates mathematical skills. Analytical writing measures critical thinking and communication abilities through essay tasks. GRE scores are valid for up to five years, offering flexibility for candidates to apply to various programs. Whether pursuing graduate studies in the sciences, humanities, or business, a competitive GRE score is often a prerequisite for admission to top-tier institutions worldwide.



TOEFL –

The Test of English as a Foreign Language (TOEFL) is a standardized exam designed to evaluate the English language proficiency of non-native speakers. It assesses reading, listening, speaking, and writing skills. Administered worldwide, TOEFL offers flexibility with multiple test dates and locations throughout the year. The exam format includes multiple-choice questions, integrated tasks, and independent tasks, providing a comprehensive assessment of language abilities. TOEFL scores are widely accepted by universities, colleges, and organizations globally for admissions, scholarships, and visa purposes, making it an essential step for individuals seeking to study or work in an English-speaking environment.

IELTS –

The International English Language Testing System (IELTS) is a globally recognized exam that evaluates the English language proficiency of non-native speakers. It assesses listening, reading, writing, and speaking skills, providing a holistic evaluation of language abilities. IELTS offers test dates throughout the year, providing flexibility for candidates. The exam format includes a variety of question types, such as multiple-choice, short answer, and essay tasks, ensuring a comprehensive assessment. IELTS scores are widely accepted by universities, colleges, and organizations worldwide for admissions, immigration, and employment purposes, making it an indispensable tool for individuals aiming to study, work, or migrate to English-speaking countries.

Exploring MBA Pathways: Opportunities in India and Abroad

Pursuing an MBA, whether in India or abroad, opens doors to a plethora of opportunities for career advancement and personal growth. In India, MBA programs typically span two years, providing students with a comprehensive understanding of business principles, management strategies, and industry-specific knowledge. The curriculum covers diverse subjects such as finance, marketing, operations, and human resources, equipping graduates with a well-rounded skill set to thrive in the dynamic business landscape. Admission into top MBA programs in India often involves rigorous selection processes, including entrance exams such as CAT (Common Admission Test), XAT (Xavier Aptitude Test), and MAT (Management Aptitude Test).

Similarly, international MBA programs, varying in duration, offer specialized tracks such as entrepreneurship and global management. Admission requirements often include standardized tests like the GMAT or GRE, complemented by English language proficiency exams such as the TOEFL or IELTS. With a strong emphasis on experiential learning and global perspectives, pursuing an MBA abroad provides graduates with the skills and insights needed to excel in a competitive global marketplace.



Professor's Talk

Good morning ma'am! I am Kavishwar Khankari and I am joined by Ishita Deshpande today. We are fortunate to have one of the most experienced teachers here at PVG COET Pune Manisha Marathe ma'am. She has agreed to share with us her story and valuable advice. We are very excited to hear from you.

To start, we all started our engineering journey for a reason. Can you share how your engineering journey began? We are keen to know why you thought to be an engineer. And what motivated you to join the teaching profession?

My engineering journey began when I was a kid because my father was a professor at WCE Sangli. So, I used to go with him to all the functions in WCE like Independence Day, cultural shows, gatherings, and everything. I used to attend all the functions in WCE. So at that time, I used to visit the Mechanical Engineering department and I was fascinated to see all the machines and sets up which were there. So this was the major reason why I wished to take admission in engineering but not for computer engineering, for mechanical engineering but unfortunately, I could not make it that is why I took admission for computer engineering which was my second preference personally. So from childhood, I wanted to complete my engineering from Walchand College only. Officially of course it started after the 12th but unofficially we can say it started when I was a kid.



Prof. M. V. Marathe

You mentioned that Computer Science wasn't your first preference and it was Mechanical Engineering instead. What fascinated you so much in the Mechanical Branch?

As I said, I used to visit that department since I was a kid. So the setup of the mechanical department is very good at my college. So there were a lot more machines like steam machines and engines. If you visit the college you can see that at the entrance of the college only there were machines. So, I was interested in looking at the machines. On top of that, my father also used to explain everything. Which is which machine, how it works, etc. So I was very interested in mechanical engineering because of these things. Plus, we can say that mechanical engineering was in my family as my grandfather was also a mechanical engineer from COEP. My father also completed mechanical engineering at Walchand College. So, it is in my family. So I never thought of any other branch when I thought about engineering. It was only mechanical engineering. Unfortunately, I couldn't make it and my father said that computer engineering is the future so you better go with this branch. So, I used to prepare only mechanical engineering subjects after my 12th. Our college started in October. So, from March to October, I only prepared for Computer Graphics since that was only my interest.

I think students are always surprised to know that teachers can also be relatable. What would students be surprised to find out about you? Would you like to share some of your hobbies or passions?

My hobbies are all non-technical. I like to travel. I like to explore new places, nothing technical. And surprises, you can say that I am not at all ambitious. My ambition was only to complete engineering from Walchand. Once I was admitted to Walchand. There was no ambition. So, during my 4 years of engineering, I never thought of a job. I never thought of what I would do after BE. Although I am telling everyone that you should do this, you should do that. And unfortunately, not many companies were visiting at that time for the placements. Hardly 3, or 4 companies, and I did not want to go to a particular place, like I did not want to go to Mumbai even though many companies were based there. So, I never applied or decided anything about what I wanted to do after graduation. So, I think that maybe the surprise because getting admission in such a good college and having no thought of what to do next might be the surprising part especially since I tell you you should do this and that.

It is said that the memories you create during your college days are some of the fondest memories you carry throughout your lifetime. Can you share some golden memories from your college days?

There are lot many memories. It is very difficult to share a single memory as I have enjoyed every day in my college as it was the dream college for me and has a great legacy. Not many colleges were there at that time and it is one of the top colleges in India.

So getting admission and enjoying all the setup like well-equipped labs and if you visit the college you will see the setup of basic branches such as civil, mechanical-all branches. So enjoying or working in that setup itself is a golden opportunity or memory for me. If you see the huge acres of campus there, each one has created a golden memory. So it is difficult to share one specific golden memory. But studying at such an esteemed university was a golden moment for me- all four years are golden memories. We enjoy that till day now. I will of course cherish it throughout my life.

We all face some difficulties when starting something new. What difficulties did you face at the beginning of your career? And how did you overcome them?

Frankly speaking, teaching was not my first option. It wasn't my last option either. I never thought of what I was going to do after completing BE. So after completing my graduation, I simply sat and thought about what I could do. So, I decided I was not going to join the software industry. That is not my liking. By looking at the lifestyle of the software industry and my priorities, according to that, I was not fit for the software industry. So I decided to join college because I got the opportunity to work in WCE. I joined as a lecturer in WCE first. Then later on I shifted to Pune.

Initially, maybe because it wasn't my first preference, the problem is that confidence was not there and fear was there if I would be able to explain the things to students and where the students would understand what I am explaining as that is the duty of lecturer, that students should understand what I am trying to explain.

That was the fear of whether I would be able to explain properly and whether they would get what I was trying to explain. I am not a very stage-like person. I never like to share things on stage. Even today I don't like that. But being a teacher you have to do that at least at a small scale so that was the major fear for me. What I did is I tried my best to deliver the session and then I used to interact with students, whether they were getting what I was trying to explain because in WCE if you are getting a student of 99 percent and if you're explaining to them, that itself was a challenge, teaching to such students. So I used to talk to students and ask if they were getting what I was trying to tell them and I was getting good feedback at that time. So, through feedback, interactions, and of course through years of experience, I worked on my problems and fears. If they are getting me it is the only fear as that is the only thing in teaching. Nothing else is required, you should reach the students. That is the important part.

You have been teaching in PVG for the last 20 years. What changes have you noticed among the students of your first and latest batch?

There is a change of almost a generation. So the difference means, I feel like this generation is smarter, they are very smart in fact. This generation, a very good change in this generation is that they are capable of changing with the changing technology, which is difficult. In the computer department, things are changing very fast and you have the capability of adjusting to those technologies. This is very positive about this current generation and very positive change about this generation is this that you are ready to adjust and capable of adjusting to changing technology which is the best part.

A few years ago you were the HOD of our department. Can you share your insights and experiences from the period when you served as the Head of the Computer Department?

I enjoyed my tenure at HOD. Being a HOD your responsibilities are different from being a teacher. Maybe, as an HOD you are responsible for the development of the department, students, everything. Academically, our department is good as far as teaching is concerned but students need something beyond that. So, I tried to explore that. Connecting with industry and industry people is required so we try to arrange some workshops so you can directly connect with industry people. So we tried to encourage such activities so you can grow. This is the only way you can grow. If you're just in college, if you're just a topper in your class, it will not help you, these additional things will help you grow. That is why we tried to provide the information or chance to participate in such activities. These are little steps we tried to take in tenure.

We all know that you have always been in contact with a lot of our alumni. Is there a particular reason behind it?

The first reason, I will say is that students are, meaning I like to thank alumni that are visiting the department or they are in touch with me because once you complete engineering it is your choice. whether to come to the department or college or not because obviously for obvious reasons that you also are busy with your schedules. So I am happy that students are contacting me or they are visiting the department and they are coming here to simply say hello to all of us so I think that is the good thing for students not for me that they are interested.

We feel honored when if a student who passes out 10-20 years back and he is coming or he or she is coming to visit the department so we feel honored for that so reason means I like to connect with students always I like to connect with students that is against my basic nature I am very very silent person actually but engineering changed me I think four years changed me so I like to connect with students always and I wish to continue that after completing means students complete their graduation after that also but the major role our alumni play I think rather than me.

As an educator in the computer department, can you share your thoughts about ChatGPT and Artificial Intelligence in general? How has the industry changed over these years?

So, AI is a very good technology, an upcoming technology, it is everywhere and I think ChatGPT is also a very very good tool. So, it is like whether TV is good or bad. The same applies to ChatGpt or mobile is good or bad same applies to ChatGpt also if you are using ChatGpt for good purposes then it is good. If you want to use it for destructive things, it is bad. So technology means it is your decision. It is in your hands whether to use it for positive things or to use it for negative things. So ChatGPT is good. I think it is a great innovation of AI. So we should not consider it as a negative thing. But if you are using ChatGPT only to copy the programs, then it is not a good thing so you can use it for good things because technology is always for the betterment of human being. AI changes everything. Normally CS was restricted to some specific domains but now AI is in all domains so it is changing the industry scenario. Everybody should know how to use it positively.

You have been a part of PVG for a long time. How would you describe PVG in one sentence?

In one sentence, everybody has the same answer of everybody, that is the second home. So why is PVG a second home? Because apart from our home, we spend maximum time in PVG only, in college only. That is why it is a second home for everyone. We have all relations over here.

To end the interview, what life advice do you want your students to always keep in mind?

I explained some concepts before also like you should be positive in your life, you should be able to prioritize things, but you should have values in your life, but apart from that you should be humble, that is the most important thing. You should know how to respect others. If you need respect from someone, you should be able to give respect to others. you should be honest with yourself because always you know that I am doing things wrong but still, you do that so be honest with yourself then only you will be able to analyze yourself. I'm not that big to advise you. I'm like you only. But still, over the years, what changes we have seen and by our experience in our small life, what is required, that only I'm sharing with you. I'm not that big to advise you. But still, I like to share these things with you.

Thank you, ma'am. It's always great to know about our teachers while listening to their experiences. Your growth is inspiring and connects us with you even more. Thank you for taking out your time and sharing your story with us. We hope to know even more about you in the coming years and grow ourselves under your guidance.

Competition Updates



HackFest

Apr 27 - 28, 2024 in Gorakhpur, India

<https://hackfest-24.devfolio.co/>

Google Summer of Code

1 May, 2024 – 14 Nov, 2024

<https://summerofcode.withgoogle.com/>



HACK THE FUTURE

Job-A-Thon Hiring Challenge

21st April 2024 9pm

<https://practice.geeksforgeeks.org/contest/job-a-thon-32-hiring-challenge>



American Express Makeathon 2024

Only for Girls

<https://www.hackerearth.com/challenges/hackathon/american-express-makeathon-2024/>



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Shivendra Deshpande

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