

MARCH  
2023

“Technology is best when it brings  
people together.”



ACES Magazine

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THE  
TECH



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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.2022-23

Sr.No.	Portfolio	Name
1	<b>Chairman</b>	<b>Prof.D.D.Sapkal</b>
2	<b>Staff Coordinator</b>	<b>Prof.A. M.Bhadgale</b>
3	<b>General Secretary</b>	<b>Ajinkya Sahu</b>
4	<b>Joint General Secretary</b>	<b>Pradnya Gaikwad</b>
5	<b>Treasurer</b>	<b>Deep Pawar</b>
6	<b>Team Technical</b>	<b>Omesh Kadam</b>
7	<b>Team Event</b>	<b>Swarda Bhandare</b>
8	<b>Team Notification</b>	<b>Satyajeet Singh Yadav</b>
9	<b>Team Web</b>	<b>Nikhil Khodake</b>
10	<b>Team Design and Production</b>	<b>Swaraj Mhatre</b>
11	<b>Team Editorial</b>	<b>Srushti Shirhatti</b>



# ACES

## Association of Computer Engineering Students

### Introduction

The Association of Computer Engineering Students, better known as ACES, is a dynamic and innovative committee run entirely by students for the benefit of students. ACES was reformed in the year 2017-2018 after the split up of ASCI into ACES and ITSA. ACES provides a platform for students to learn and grow in unique and exciting ways. Our motto, "Connect, Innovate, Inspire," reflects our commitment to connecting students with their peers, alumni, and industry professionals, inspiring them to innovate, and guiding them towards achieving their goals.

Over the years, ACES has organized numerous tech and non-tech events that have been both fun and educational for participants. Some of our most successful events have included coding competitions like CODE MODE and Diwali Fiesta, resume building workshops, hackathons, guest lectures, and networking events.

We are a committee that is passionate about what we do, and our events are designed to encourage students to explore their interests and develop new skills. We take pride in being progressive and propitious, always striving to create new opportunities for students to learn and grow.

Whether you are interested in computer engineering or simply looking to explore new opportunities and connect with like-minded individuals, ACES is the perfect platform for you. Join us and become part of a vibrant community dedicated to helping students succeed in all aspects of their academic and professional lives.

### Events Conducted By ACES

#### Diwali fiesta:

Diwali fiesta, organized by ACES, is a captivating event that takes place during the Diwali festival. This event is a harmonious blend of various technical and non-technical activities that are enjoyed by all. In 2022, ACES hosted a range of events, including RESPAWN, DESIGN HUNT, MINDBOOTH, and PHOTO FEST.

RESPAWN was a thrilling series of gaming competitions featuring popular games like Fall Guys, Chess, and Valorant. DESIGN HUNT was an opportunity for participants to showcase their design skills by creating posters and certificates, with the winners earning a chance to join the ACES family. MINDBOOTH focused on blogging about technical and non-technical topics, with the most outstanding blogs being featured in our magazine.

The most exciting event of all was the Photo fest, where students showed off their photography skills by capturing captivating images centered around Diwali themes. All winners received a shoutout on our Instagram handle, while all participants were awarded a certificate of appreciation and prize money.





### Genesis-

Genesis is a highly anticipated event held annually in March, directed by ACES. This mega event is focused on Alumni talks, consisting of interactive discussions about college-related activities, resume building, internships, placements, freelancing, start-ups, hackathons, competitive coding, research papers, and much more. It serves as a platform where students can get answers to all their doubts and questions regarding engineering and post-engineering. The talks include valuable tips for placements and interviews, off-campus placements, open-source programs, and creative careers, to name a few. The alumni also share their experiences and stories from their journey through and beyond engineering.

Genesis is an opportunity to explore your potential and unlock new opportunities by learning from the experiences of those who have been there and done it all.

### Code Mode ACES -

Competitive Programming (CP) is a highly engaging mind sport that challenges participants, also known as competitive programmers, to solve one or more logical problems using their programming skills. In fact, the primary objective of competitive programming is to create computer programs that can successfully solve complex mathematical or logical problems within a specific timeframe. To help aspiring coders develop their skills, ACES organizes an annual event called CODE MODE. This coding competition takes place on the popular Hackerrank platform and provides beginners with an opportunity to showcase their coding abilities by solving six challenging coding problems in just two hours. Furthermore, CODE MODE allows participants to use any programming language they are comfortable with, enabling them to leverage their strengths to the fullest. The winners are categorized as FE,SE Category and TE,BE Category.



### Algorhythm -

Algorhythm, the flagship event organized by ACES, is a two-day extravaganza filled with exciting tech and non-tech events and games. Our event has been a huge success in the past, featuring games like Pocket Tanks, FIFA, Cricket, Need For Speed, and tech events like Reverse coding. Unfortunately, due to the pandemic, we were unable to hold the event for the past two years, but this year we are back and better than ever!

In addition to classic tech games like Blind Coding and Tech Dumb Charades, we will also be hosting non-technical events such as Treasure Hunt and Obstacle Race. We are committed to providing an engaging and entertaining experience for all participants, and our team is working tirelessly to ensure that this year's event is the best one yet.

At Algorhythm, participants can expect to engage in friendly competition, connect with like-minded individuals, and showcase their skills and abilities. Our event is a great opportunity to have fun and learn something new. We look forward to seeing you at this year's Algorhythm and creating unforgettable memories together!



# ABOUT COLLEGE

## COLLEGE AND COMMITTEE EVENTS



### SAMSARA 2K23

The word 'SAMSARA' means birth, death and rebirth. 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. Samsara2k23 was an exciting event that brought together students and faculty from all departments celebrate their college life and have a great time.

#### 13th February

'The Ramp Show' was a fashion show to enhance engagement of students and to experience industry standards of reality shows. Contestants dressed as per the theme 'Western and Cinema' and walked the ramp to showcase their social perspective and confidence through question and answer round. The show not only had fashion but also mind blowing dance performances by PVG's Dance Group, PVG's Art Circle.

#### 14th February

- **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.
- **Live Music show**-;The live music show was organized by PVG's Music Club. A concert where the audience could vibe and sing along.

#### 15th February

- **Theme Day**- A total of 5 themes were selected for this 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.

#### 16th February

- **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 Vadan**- 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. The Vadan was preceded by 'Shambhugatha' and 'Sambhaji Maharajanche Swagat' performances by students.

# CODE MODE 2022-2023

Saturday, 4th March 2023.

Code Mode was a competitive coding competition held by ACES PVGCOET for all undergraduate engineering students. The Hackerrank 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.

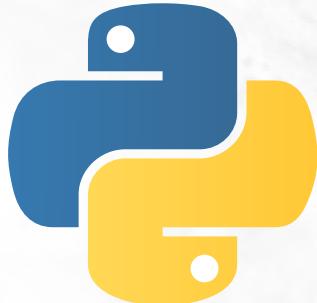


## Winners-

TE & BE Category	FE & SE Category	ACES Family Category
Winner: Prashant Kalyane. [PICT, TE Computer] Prize: Rs. 600	Winner: Suparshwa Patil. [PVGCOET, SE IT] Prize: Rs. 500	Winner: Vaibhavi Mekhe. [PVGCOET, BE Computer] Prize: Rs. 150
Runner Up: Denzil Samuel. [PVGCOET, BE IT] Prize: Rs. 300	Runner Up: Aditi Ranade. [Cummins, SE Computer] Prize: Rs. 300	Runner Up: Roonak More. [PVGCOET, TE Computer] Prize: Rs. 150

# PYTHONISTA 2022-2023

Saturday, 28th January 2023- Sunday, 29th January 2023



ACES PVGCOET had arranged a two-day 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. Shivendra Deshpande. [PVGCOET, TE Computer]  
Mr. Shyam Lokhande. [PVGCOET, TE Computer]

# ACM Event

It was an exciting as well as a very informative event regarding various aspects such as research Paper writing , how to select the topic for it , citing sources and much more!!! All the participants who took part in the workshop received an international certificate of completion.

**Speaker:** Dr Dipti Patil  
**Date:** 10th March 2023  
**Time:** 11am to 1pm  
**Venue :** PVGCOET Auditorium

# RANASANGRAM

'Ransangram' is a prestigious sports event of the college. It was organised under 'Samsara 2k23'. It commenced with the arrival of the highly eminent chief guest, Mr. Mahendra Gaikwad (Wrestler). Under Ransangram Annual sports event, collectively ten inter departmental sports competition were organised.

**Date:** 9th,10th and 11th February 2023  
**Sports:** Basketball, Football, Volleyball, Dodgeball, Cricket, Kabaddi, Athletics , Badminton, Table tennis and Chess  
**Participation:** Around 1500 students  
**Winner:** ENTC department

**"Grab opportunities,  
instead of being rigid on  
any of your  
expectations "**

I started as Associate Technical Engineer at IBM and am currently in the role of Automation SME at Kyndryl - IBM. I Pursued MCA, and secured 5th rank in Bangalore University I love programming and I am curious to learn new technologies.

**Can you explain your role as Automation SME and how it is different from your last role as an Associate Technical Engineer?**

I started my career at IBM as an Associate Technical Engineer, a general role title given to candidates looking into the Service support domain and handling multiple tasks like issue handling incident management and support services. Post the GTS transition from IBM to Kyndryl, I continued in the same role. Here, I continued to support Event management and Incident Management for one of our Clients' Infrastructure services management.

Post this, my role was changed to Automation SME (Subject Matter Expert) . Now, I am working in the same team, but in the domain of Automation. I create reports and dashboards and analyze the data, with which we create a UC to develop an automated flow to automate either partial or complete manual processes. This helps my team and the client save time, quickly analyse the errors and faults occurring, and give the best ROI.

**You had also done an AI internship. Can you tell us the role and responsibilities as an AI intern?**

I was curious about how a machine can make decisions just like a human. So, when I completed my graduation in 2019, I got a chance to work as an AI intern at a start-up company, "arukasTech". While I was interviewed, the only confidence I could give was that I would always explore the technology, I had no excellent knowledge of it, nor anyone to guide me on the same. Looking at my interest and thoughts, I was given the opportunity.

# INDUSTRY REVIEW



*Divya s. Meharwade  
| IBM | Kyndryl | Automation Lead |*

The first week, I just explored my questions and answers.

The following week, I was given an introduction to the project and my responsibilities. The project was of an incineration machine, which had a Chip And I had to implement AI on that Chip, so that it takes decisions using all other components in the device. From that day, I started exploring new fields and applying my knowledge to integrate and achieve results.

To brief my roles and responsibilities, I was responsible for implementing NLP on the Chip. It was quite an exciting and interesting journey to have explored the new fields and integration of that with actual electronic components using different computer languages.

**Which trend in software technology will dominate the coming decade?**

As we enter the Digital Era, the amount of data generated every second from multiple sources is undetermined. However, now the trend is towards using this data in a way that interests people. We are seeing the Internet of Things booming and attracting the attention of the world.

The next decade will be dominated by Artificial Intelligence and IoT. The focus will be to use this huge amount of data in training IoT and make products and softwares that help reduce human efforts, give multiple choices, make better decisions and easy-to-use platforms and applications. However, the scope for the existing technology will never end.

### **How is your journey so far in IBM-Kyndryl? Do you get enough challenges everyday?**

My journey at IBM-Kyndryl has been great. The work culture, team coordination and support have always motivated me to give my best. The first challenge was to trust me and express my thoughts, as my colleagues are pretty experienced. As days passed, I explored and learnt a lot from each of them.

There is only a thrill with challenges. In corporate, too, there are multiple challenges that we face; Few challenges within us and few towards the company. Taking the right decisions, thinking in all aspects and understanding the risks is what is essential. The Corporate world doesn't give much importance to what qualification is done, it is just the entry-level. Once you enter, what matters is 'YOU', which simply means what your skills are and how well you are upgrading yourself. Well, challenges will be part of each day, with a new version and it's our responsibility to upgrade ourselves and make appropriate decisions.

### **What is the functionality style of industry and what a fresher should keep in mind while entering the industry?**

The functionality style of the industry is procedure based, with agility inculcated in each process. The flexibility to think out of the box and take forward new processes and steps is encouraged in most of the domains.

Here are few things a fresher should keep in mind while entering the industry:

- Grab opportunities, instead of being rigid on any of your expectations
- Apply and attend interviews only to roles you are interested to join and work as.
- Never attend interviews without being clear on the Job description and skill set requirements.

- Do add all the workshops and courses you attended into your resume, this shows you are interested to learn and have a growth mindset.

### **How to keep up with the fast changing/increasing pace of industry?**

World is changing every minute, something new is analysed, something new is invented. But that doesn't mean we have to learn everything and be perfect at it. Similarly, the fast-changing IT industry doesn't ask you to know everything. So here are few tips to keep up with it:

- Be strong with the basic logic and concepts.
- Ask questions to yourself on how a particular technology is being used and explore it.
- Keep doing quick courses and complete certifications in technologies you are interested in.

It becomes easy to cope up with the industry when you find the root of the technology and know what is the need of it.

### **What can a UG student do to get a job like yours in future?**

Well, there are a lot of challenges a student faces during this period of time, But never be disappointed in rejections, understand that rejections give you a chance to improve yourself and get something better than what you tried for.

Few things that I can suggest all students to do are as follows:

- Don't just dream about a company, work towards achieving it.
- Always try to explore your interest from different sources.
- Here are few things you must do before you attend an interview:

1. Know about the company. Do research about what are their products / services.
2. Understand the requirements of the job role.
3. Prepare for the first couple of rounds of interview, on an everyday basis.

Your last moment efforts might give you what you want, but continuous improvement and graduation growth will always lead you to success.

### **Thought Sharing**

Thank you to Ajinkya Sahu and ACES team to have given me this opportunity. I believe "Great satisfaction comes from Sharing with others". I have written out my experience and views in this article, and hope that this will help the students to realize and act better in their future. - Divya S M

Their devices collect precise data on machine health, operational factors, environmental conditions, and material information. This data from various devices, both IoT and non-IoT, is centralized for analysis and decision-making. Deep reinforcement learning is used to identify correlations and make optimized decisions, resulting in improved plant availability, reduced waste, and increased operational transparency.

Bert Platform Solution is implemented in buildings and factories, to sense various machine running and environment parameters. Insights regarding each machine, its energy profile and interaction with other equipment are determined and provided to the customers. Intelligent & fully automated controlling is done for HVAC, utility & industrial machines to reduce energy consumption, improve productivity and quality. It also predicts when machines need maintenance.

Core values of Bert Labs:

1. Sustainability, Energy Efficiency Improvement, Decarbonisation, Zero Carbon & Carbon Neutrality
2. Energy Efficiency Improvement and Thermal, Air Quality Comfort in Commercial Buildings
3. Compliance & Regulations in Pharma APIs and Formulations
4. Manufacturing Process Line Efficiency for improved Quality & Productivity
5. Supply Chain Planning, Logistics and Capital Efficiency Improvement
6. Drug Discovery & Development Process Efficiency Improvement

## Bert Labs

Innovation at the intersection of AI & IoT

BERT Labs has been recognized for its expertise in natural language processing and artificial intelligence, and its solutions have been implemented by clients in various industries, including healthcare, finance, and retail.

The company's solutions, such as chatbots and voice assistants, are designed to help businesses automate processes and improve customer engagement. BERT Labs' consulting and custom development services are also geared towards helping businesses leverage the latest NLP and AI technologies to gain insights from unstructured data.

# EMERGING STARTUPS

**BERT LABS-**  
*Innovation at the  
intersection of AI  
& IOT*



Rohit Kochar  
Founder, Executive  
Chairman & CEO  
Bert Labs

Bert Labs([www.bertlabs.com](http://www.bertlabs.com)), founded in 2017 by Rohit Kochar, uses Internet of Things to enable its clients to improve energy efficiency, reduce carbon footprint, and improve supply chain planning and logistics. BERT Labs' name is derived from Bidirectional Encoder Representations from Transformers (BERT), a language model developed by Google that is widely used in NLP.

The company enables customers to utilize their software and hardware to create tailored applications that are deployed directly at the relevant locations. Their devices accurately and comprehensively measure machine health, operational factors, environmental conditions, and material information. Data from both IoT and non-IoT devices is aggregated in a central location, allowing for effective action to be taken. Deep reinforcement learning is employed to identify correlations extensively and make optimized decisions, leading to improved plant availability, waste reduction, and enhanced operational transparency.

The company provides software and hardware solutions that allow customers to create customized applications for specific locations.

Arora's company mainly provides vulnerability assessment and penetration testing services. According to Arora, there has been an increase in the number of attacks against portals of companies.

In 2016, TAC Security raised Pre-Series 'A' funding from Indian investor Vijay Kedia; prior to this TAC Security had inducted Subinder Khurana former Vice President of Cognizant on its board.

"My vision is to help customer experience officers strategically assess & manage enterprise-wide risk through a single platform."

- Trishneet Arora, Founder, Director and CEO



TAC Security, like other companies in the cybersecurity industry, faced challenges such as tough competition, the need for skilled talent, and the evolving threat landscape. To overcome these challenges, TAC Security adopted strategies such as focusing on innovation, forming strategic partnerships, investing in employee development, and prioritizing customer satisfaction.

Trishneet Arora, the founder of TAC Security, has been recognized for his achievements. He was listed among the 50 Most Influential Young Indians by GQ Magazine in 2017 and was honored with "Trishneet Arora Day" by the Mayor of Santa Fe, New Mexico. He was also named in Forbes 30 Under 30 2018 Asia list and Fortune 40 Under 40 2019 List of India's Brightest Business Minds.

TAC Security serves clients such as Reliance Industries, Central Bureau of Investigation, Punjab Police (India), and Gujarat Police.

Trishneet Arora's journey exemplifies the saying that passion and perseverance lead to success. Despite facing failures and challenges, he took risks and overcame obstacles without fearing the consequences.

# EMERGING STARTUPS

## TAC Security

Mumbai headquartered emerging startup TAC Security solutions works as a leader in the field of cyber security. The purpose of TAC security is to provide services in the fields of cyber security, ethical hacking and web defense. The startup was founded in 2013 by Trishneet Arora, a school dropout at the age of 19. He is an ethical hacker and an author too with a fascinating journey.



**Trishneet Arora, 25**  
**Founder, TAC Security**



This tutorial will teach you how to integrate Axios with React using a sign-in form. You'll learn why Axios is a good choice for a data fetching framework, how to integrate it with React, and how to use it to send HTTP requests.

### What is Axios?

An HTTP client library called Axios enables you to send requests to a specified endpoint:

This may, for instance, be your own backend Node.js server or an external API.

You anticipate your API to carry out an operation in response to the request you make when you submit it.

For instance, if you send a GET request, you anticipate receiving data that your application can show..

### Why Use Axios in React?

There are a number of different libraries you can use to make these requests, so why choose Axios?

1. In contrast to other options like the Fetch API, you frequently don't need to set your headers. Alternatively, carry out laborious operations like transforming the request body into a JSON string.
2. In less code, Axios accomplishes more. In contrast to the Fetch API, only one is required. To get the JSON data you requested, use the then() function.
3. Axios handles errors better. You receive range errors 400 and 500 from Axios. In contrast to the Fetch API, where you must manually check the status code and throw the error.

### Install React:

**Prerequisites:** having NodeJs installed on the machine

Open your windows terminal and paste the following command:

```
> npm install -g create-react-app
```

### Create React App:

```
> Npx create-react-app appname
```

### Start the app:

```
> cd appname  
> Npm start
```

### Remove the unnecessary content:

Remove the unnecessary content from index.js and delete the unnecessary images

### Create a new component:

Create a new component login.jsx in the components folder

### Create the regular boilerplate code in the login.jsx

### Creating a login form:

The login.jsx returns a form with two input components named email(type email) and password (type password) and a submit button to submit the form

### Styling the form:

Create a separate login.css file in the components folder to style the form and import the css file in login.jsx

### Creating hooks:

Importing useState in login.jsx & creating hooks

Create two hooks as shown below to handle email and password fields

```
cosnt [email, setmail] = useState("");
const [password, setpassword] = useState("");
```

### Calling functions on changing input fields:

Use onChange={handlemail} and onChange={handlepass} functions in email and passwords input fields respectively

```
const handlemail = (event)=>{
  setmail(event.target.value);}
```

```
const handlepass = (event)=>{
  setpassword(event.target.value);}
```

### Handling API requests:

Create a function to handle API calls handleApi and

put onclick={handleAPI} into the submit button

### Installing Axios:

Open a new terminal and change the directory to the app folder

Install axios using the command

*Npm install axios*

### Import axios:

```
import axios from "axios";
```

### Using axios to handle API calls:

Use axios into the handleApi function as shown below

```
const handleAPI = () => {
  axios
    .post("https://reqres.in/api/login", {
      email:email,
      password:password, })
    .then((result) => {
      alert("logged in successfully"))
    .catch((err) => {
      alert(err.message + "\nInvalid mail or
password"));
```

**Remark:** We are using reqres.in to make API calls

### 6.Success

If the credentials match with one of the credentials in the database, you'll get a prompt saying 'logged in successfully'.

```
[Credentials: "email": "eve.holt@reqres.in",
"password": "cityslicka"]]
```

### 7.Failure

If the credentials are not in the database, the server will give us an error

**Remark:** We are using reqres.in for API calls thus, we are using the default login credentials as provided by the website. Any other credentials will be declared as false ones and the website will give us an error.

*Congratulations! You now know how to use one of the most powerful*

*HTTP client libraries to power your React applications.*

*I hope you got a lot out of this guide.*



# ALUMNI JOURNEY

## VINOD KAMAT

**The person we interviewed has stood on the same stage as we are in.**

**He is none other than Vinod Kamat, an Ex-ACES General Secretary.**

**Vinod has also served in MortgageKart Limited, in addition to his 3-year tenure in ACES, where he spent 2 years as a web team member and 1 year as the GS of ACES.**

**Let's dive into how Vinod shared his valuable experience with us.**

### **1. First days of college are always special. Tell us about your first day.**

**The first day of college was quite fascinating to me. I had gained a lot of weight during the last phases of the 12th**

std and the initial phase of 1st year. My only aim during those initial days was to ensure that the people I hung out with would have an impact on my career transformation. I was able to meet and talk to everyone, and the friends I made during those days are still close to me. The initial days of college were very special to me as I was able to learn a lot of things, and it felt like I was out of the 12th-grade bubble. I had a little freedom, and I could bunk classes and chill a little. Overall, it was a feeling of relief and excitement to step into a new world.

### **2. When you are there in college, there's always that one teacher with whom you connect the most, with whom you have a special bond. Who was that teacher for you?**

In my experience at PVG Computer Department, I have found that the teachers are incredibly supportive. While I can't say that I had a particularly close bond with any one teacher, there are two that stand out to me as particularly admirable: Bhadgale Sir and Marathe Ma'am. Bhadgale Sir has always been closely associated with ACES and has encouraged students to explore new things and excel in co-curricular and extra-curricular activities. On the other hand, Marathe Ma'am was the HOD during my 3rd and 4th years in college and provided me with a lot of guidance, particularly during hackathons. Whenever I get the chance to visit my college, I make sure to stop by and say hello to them.

### **3. There are times in college when you become hesitant to express your opinions or reach out to people when you are in need. How to handle such situations?**

In my 12th standard, I was extremely shy and hesitant to speak up, even in front of a class. But, in my initial years of engineering, I made a conscious effort to change that. I realized that college is a place where you get ample opportunities to express yourself, give speeches, and interact with people. While there were instances where I still felt hesitant to speak up, as I progressed through college, it became more natural for me. I learned when to speak, what to speak, and when not to speak. From the first day of college, I made an effort to be more extroverted, approachable, and helpful, and over time, these traits became a part of my personality.



# ALUMNI JOURNEY

## VINOD KAMAT

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### **4. Co-curricular and extracurricular activities can greatly shape one's personality and offer numerous benefits.**

*What qualities and hobbies did you discover through college committees and how did they benefit your personality?:*

*Certainly! When I joined college, I had the mindset that I wanted to do more than just study. While academics were important, I wanted to take advantage of all the opportunities available to me.*

*I joined almost every club, starting with Vlabs in my first year, which taught me web development and allowed me to interact with students from other departments.*

*In my second year, I joined the PVG Arts Club to overcome my fear of public speaking.*

*I participated in dramas, skits, and improv, which helped me meet many new people, including Preyadarshani Indalkar, who is now part of Maharashtra Hasya Jatra. It was an amazing experience that really helped shape my personality.*

*In my third year, I joined ACES, which became a very important part of my college journey.*

*I learned a lot from the seniors there, like Arnav and Madhuri, and later Abhishek Shah, who became a close friend and mentor. Thanks to Abhishek, I got an internship in project management, which was a fantastic experience.*

*I also started learning Japanese in my third year, although I was only able to clear the first two levels before I had to stop. In my final year, I was part of the Robokon team, where I got to develop software for robots and learn about other fields. I also started a podcast called Vorpo's Blog and was the project manager for DSE PVG's COET (GDSC at the time), where Sunanda was the GS.*

*My motto was to try everything and not let any opportunity pass me by.*

### **5. 3rd year has an Internship as a subject. But when the time comes, students find it extremely difficult to go through the process. Can you share your internship experience and how to approach internships?**

*One of the primary reasons why students at PVG find it difficult to secure internships is the lack of a strong alumni network. Having alumni at prominent companies makes it easier to land an internship through referrals or recommendations. Unfortunately, PVG's alumni network is not as extensive as it could be, and this puts students at a disadvantage. Moreover, the timing of internship interviews can also pose a challenge. In the first semester of TE, students are still in the early stages of their Computer Science education and have only learned the basics of DSA, OOPS, and web development. However, internships can provide invaluable learning experiences, and I believe that the focus should be on what you can learn from the internship rather than what you already know. Although the process can be difficult, reaching out to seniors who have already secured internships can be a helpful strategy. Don't hesitate to message them on LinkedIn and ask for their guidance or advice. I've found that PVG seniors are generally approachable and willing to help out.*



# ALUMNI JOURNEY

**VINOD KAMAT**

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## **6. How do Hackathons impact your resume? Can you share your experience with the two Hackathons you participated in within 20 days, as seen on your LinkedIn profile?**

In a span of 25 days, I participated in three Hackathons, although I didn't mention them on LinkedIn. The culture of Hackathons was introduced in my college by Abhishek Shah, who participated in a Hackathon during his SE. Out of curiosity, we applied for the 'Smart India Hackathon' without much knowledge about it. Surprisingly, our presentation qualified us to develop an Android application, despite lacking prior experience in Android development, JAVA, and GIT. Within 1-1.5 months, we successfully built a decent app. Hackathons have had a significant impact on my career, as they involve developing a product from scratch, similar to my role as a product manager. Although we faced initial setbacks, including losing the first Hackathon and experiencing rejections, we persevered and eventually won three Hackathons within 25 days. The focus was not solely on winning; Hackathons provided valuable opportunities to learn about technologies, product development, and teamwork. I participated in these Hackathons alongside Advait Bhope, except for one or two.

## **7. Tell us about your early days in the industry, how things were back then and how things are now.**

I would say that the initial days as a product manager are incredibly tough. This is because the job is not typically offered to a fresher, as it requires some level of experience. Additionally, being responsible for a product can be intimidating in itself, and as a product manager, you may also have to be a developer at times. During the early stages of my job, I had to learn a lot about the business nuances of the product I was developing and hone my soft skills. Managing a product is not just about managing the product itself, but also managing the people working on it. Even now, as an early stage product manager, I still make a lot of mistakes and learn from them.

I was fortunate to have had the opportunity to intern as a product manager at Bubble Insurance, thanks to Abhishek Shah's support. During my internship, I received a message from the CEO of MortgageKart for a role as a node.js developer. While I expressed interest in the post, I also showed interest in the product manager opening in the company. After a series of interviews, I was qualified for the product manager position due to my experience gained from the internship.

Overall, I believe that continuously asking for opportunities is crucial to success in the product management field.



# ALUMNI JOURNEY

## VINOD KAMAT

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**8. How do you envision your career path moving forward, given that progress is a continuous journey and there is always room for further growth and development?**

Higher education is on my radar, but I am in a dilemma about whether I should pursue it in India or the US. My plan is to obtain a management degree, either from India or abroad, within the next two years. I am a decent developer and project manager, but I believe I would be happier if I transitioned to management.

**9. If you had to choose just one, what college memory would you say is the most precious and unforgettable, the one you would love to relive again and again?**

The memory I hold dear is associated with ACES. During my first year, Adwait Bhope and I were attending a lecture when we heard about the ACES inauguration event. Without any second thoughts, we left the lecture to attend the event. As we were seated, watching the ceremony, I was immensely impressed by the speech given by Prakhar Shrivastav, the first GS of ACES. At that moment, I turned to Adwait and confidently said, "See, in the fourth year, I will be the General Secretary of ACES."

Fast forward to 2021, as the interview results were declared, I was on a call with Adwait when he shared the news that I had been selected as the General Secretary of ACES. The power of manifestation truly does work!

**10. Can you share some valuable advice that you believe would be helpful to others? Here are some tips that I would like to share. It may not be a planned map, but it can be helpful.**

During your FE, explore as many things as you can. In SE, limit yourself to 2-3 things. In TE, focus on one thing and also consider all your options for higher education, as you may have less time to focus on these things once you enter your professional life.

In BE, I would suggest not only sitting for on-campus jobs but also searching for off-campus jobs. There are plenty of jobs available, and I believe that PVG students deserve better opportunities than what we currently offer.



# ALUMNI JOURNEY

## AASHAY ZANPURE

**The person we interviewed has stood on the same stage as we are in. He is none other than Aashay Zanpure, an Ex-ACES DNP Team Head. Aashay has also served in MortgageKart Limited and ZS, in addition to his 3-year journey in ACES. Let's dive into how Aashay shared his valuable experience with us.**

### **1. What was your first day at college like? Could you describe the highlights and any challenges you faced?**

*On the first day of college, I was eagerly anticipating my first lecture, which happened to be math. However, I ended up missing it and instead attended my second lecture on physics. Despite this initial setback, I quickly made a group of friends who remained my companions throughout all four years of college, and with whom I still keep in touch today.*

*While my memories of that first day are somewhat hazy, I recall feeling a sense of excitement and anticipation for the future. As a young teenager, I was embarking on a journey of self-discovery, exploring my strengths and weaknesses and discovering what college had in store for me. At the time, I didn't dwell too much on the future - I was simply enjoying being a carefree kid and having fun. Looking back, I realize that my first day at college set the tone for an unforgettable adventure, full of learning, growth, and lifelong friendships.*

### **2. As you reflect on your journey from your first year until now, what emotions come to mind and how has this journey shaped you as a person?**

*Reflecting on my college journey, I can say with certainty that it was an incredible adventure. However, as with any journey, there were moments of regret and missed opportunities. Looking back, I wish I had made time for certain hobbies and pursuits that I now struggle to fit into my busy schedule. While there were many things that I did accomplish during my time in college, there are still some things that I regret not doing.*

*Despite these regrets, what I value most from my college years is the bond and fun times that I shared with my friends. The memories of laughing and enjoying each other's company during those four years will stay with me for the rest of my life. While competitions and hackathons were great, they were just ancillary to the main event - spending quality time with my friends. In the end, it's the relationships that we form that truly make a journey worthwhile.*



# ALUMNI JOURNEY

## AASHAY ZANPURE

### **3. Every college student has that one senior who they look up to and who motivates and guides them throughout their journey. Is there someone in particular who has had a significant impact on you and whom you would like to mention?**

*When it comes to seniors who have made a positive impact on my college journey, there are a few that come to mind. Some are only a year ahead of me, while others are two years my senior. In the 2019 batch, I particularly looked up to Mansi Barole, Madhuri Sathe, and Gaurav Jaiswal. In the 2020 batch, I would like to give a shoutout to Abhishek Shah, Akash Rasal, and Parth Parik for their guidance and inspiration throughout my time in college.*

### **4. College committees play a vital role in shaping the college experience. Could you share your experiences of being a part of any committees during your time in college?**

*In my second year of college, I was introduced to ACES, and initially, I didn't really know what the big deal was. I had heard about the collaboration between ACES and the IT department in previous years, and I was curious to see what it was all about. I wasn't sure which team I should apply for, so I just gave my top three preferences and went for the interview. I still remember that Arnav Gundawar and Madhav Sathe were the ones who interviewed me, and they placed me in the design and production team. It turned out to be a perfect fit for me since I am interested in photography and videography.*

*I never thought I would end up becoming the head of the design and production team in my final year. It has been an incredible journey, and I have learned a lot about the corporate hierarchy. I got to experience being the junior most fresher at the bottom of the hierarchy and working my way up. Although this isn't the actual representation, it gave me an idea of how it works in real life.*

*Being a part of ACES also gave me the opportunity to connect with my teachers and build relationships that go beyond the four years of college. It's important to make good connections with peers, students from other branches, and faculty members. This exposure helps create a network that can serve you well in the future.*



# ALUMNI JOURNEY

## AASHAY ZANPURE

### **5. Can you describe some strategies that you used while you were the head of the design and production team to manage the team? Additionally, can you share any strategies you used for learning new technologies?**

To begin with, during the interview process, I always looked for candidates who had a strong design sense and something to showcase, whether it be skills in Photoshop, photography, video editing, or even simple sketching. Digital tools can be learned, but having a natural sense of design is crucial. Luckily, I had the privilege of having talented juniors, including Neha Koshti and Tejas Bele, who had excellent design skills. Each team member had a different skill set, with some being skilled in video editing, others in Illustrator and Photoshop, and some in physical sketching. It was important to have at least one person with each skill set on the team, and to treat each member as equals. As a team leader, it is important to avoid a superiority complex and ensure that each team member feels valued, otherwise their morale can decrease and they may not be motivated to work with you.

After the team was formed, I personally talked with each selected team member to make them feel like they were part of the committee and that I cared about their passions and areas of specialization in design, even if it was something as generic as mobile photography. I believe that it is important for each team leader to create a welcoming environment where team members feel valued, even if they are new, and to make them feel comfortable if they are hesitant or shy.

### **6. What hardships did you face throughout your journey?**

First and foremost, I want to mention that I wasn't sure about what I wanted to pursue in terms of engineering or computer engineering. I chose engineering because of my family's academic background and my curiosity about technology. It turned out to be the best decision of my life, but I still had uncertainties. After a few years into engineering, I noticed that people around me were picking their career paths early, and I was still clueless about what to do for the rest of my life. To some extent, I'm still uncertain, but I tried to navigate my way through by identifying my interests and what the industry needs. I also experimented with different areas, both technical and non-technical, through trial and error. For instance, my first internship was a non-technical one at a social media agency where I worked as a content writer and video editor. I did this internship out of curiosity and without pay. After that, I took a technical internship and tried my hand at software development. Overall, I'm someone who likes to try many things before settling down. Personally, it was a battle for me, but I think I'm gaining some sense of stability now.



# ALUMNI JOURNEY

## AASHAY ZANPURE

### **7. What were your strategies for internships and placements?**

All of my internships were acquired through my personal network. I received interview opportunities through people I knew. As I mentioned earlier, networking is a crucial part of the process. You have to initiate conversations with people who could be your seniors or faculty members. If you don't ask, the answer will always be no.

Regarding my job placements, during my final year of college, I received a total of 5 job offers. Three of them were through the college placement process and two were through off-campus interviews. I got one job at "Mortgage Cart" through a LinkedIn job posting. Later on, I switched to a job at "Zeus Associates" that was referred to me by a friend who worked there. The interview process included a case study round, an aptitude test, and a final HR interview.

### **8. You just mentioned a case study round. What does that mean?**

My role was a Business Operations Associate, which was more of a business-oriented role than a technical one. I was given business cases to analyze and come up with solutions for. During the interview process, I was given a case study to read and had one hour to take notes and prepare. The case study was about Incentive Compensation for perfume companies, and I had eight questions based on it. One of the questions asked me to draw a graph. Based on my answers, the interviewers asked me about my approach and reasoning for certain values and how I interpreted the graph. It was a challenging but interesting interview.

### **9. As someone who has explored various fields and industries, could you share some advice or tips for juniors who may also be unsure about their career path or interested in exploring different fields?**

As someone who has explored various fields and industries, my advice to juniors would be to take advantage of this age of exploration. Often we hear societal pressures to settle down, pursue advanced degrees or get married, but it's important to remember that everyone has their own timeline for personal and career growth. Of course, it's important to maintain financial stability for yourself and your family, but if you have the privilege to do so, take the time to explore different fields and industries. Ultimately, nobody else should dictate your career path for the next 30-40 years, so it's important to take the time to figure out what you truly enjoy and what fits your personal goals and values. Don't live your life based on someone else's perception of how you should live it. If you stay true to your own path and interests, things will most likely fall into place.

*Get ready for the latest in tech news! Stay updated on cutting-edge innovations, industry trends, and game-changing technologies. From gadgets to AI, cybersecurity to emerging tech, we've got it all covered. Join us as we explore the world of tech and its impact on our lives. Let's dive in!*

# TECH NEWS

## 1-Discovering the World Around You: Google Maps' Immersive 'Live View' AR Feature

Google is taking navigation to the next level with its innovative augmented reality (AR) feature that promises to revolutionize the way people discover interesting things nearby. With the search with Live View feature for Maps, users can now access a cutting-edge visual search experience using their phone camera, artificial intelligence (AI), and billions of Street View images. The feature simplifies navigation by providing directions to coffee shops, ATMs, and other locations by simply holding up your phone and pointing it at the world around you.

Currently, Android and iOS users in major cities such as London, Los Angeles, New York, Paris, San Francisco, and Tokyo are able to experience this immersive feature, which started in November 2022. This groundbreaking feature provides a wealth of information about places and businesses, including opening hours, busy periods, price ranges, and star ratings, making it easier than ever to discover exciting new places to visit.

However, as this feature is yet to be rolled out in India, it may be challenging to predict how it will be received when it becomes available. Nevertheless, it is likely to be a game-changer in terms of navigation and discovery, offering a unique and immersive way to explore new places and find interesting things to do.



## 2-ISRO Launches Vikram-S: India's First Private Rocket

ISRO Launches Vikram-S: India's First Private Rocket

The Indian Space Research Organisation (ISRO) made history on Friday, 18th November 2022, by successfully launching Vikram-S, India's first privately developed rocket, from its spaceport in Sriharikota, approximately 115 km from Chennai. The rocket was developed by Hyderabad-based start-up company Skyroot Aerospace Pvt Ltd (SAPL) and weighs approximately 545 kgs.



Named after Vikram Sarabhai, who is widely regarded as the father of India's space sector, the rocket marks a new beginning in India's journey towards space exploration. In a fitting tribute, the mission has been named 'Prarambh', which means "beginning" in Hindi.

The VKS is a single-stage fuel rocket with a spin-stabilized solid propellant system. After the launch, the rocket achieved an 89.5 km peak altitude around 12 pm, with all flight parameters intact, according to Skyroot Aerospace. This successful launch marks a significant milestone for India's space sector, showcasing the capabilities of Indian start-ups and their potential to contribute to the country's growth.

The launch of Vikram-S is a testament to India's growing ambition in space exploration and innovation. The success of this privately developed rocket is a crucial step towards reducing India's reliance on foreign technology and boosting the nation's self-sufficiency.

## 3. God of War Ragnarök: Kratos and Atreus Return in Epic Norse Mythology Adventure



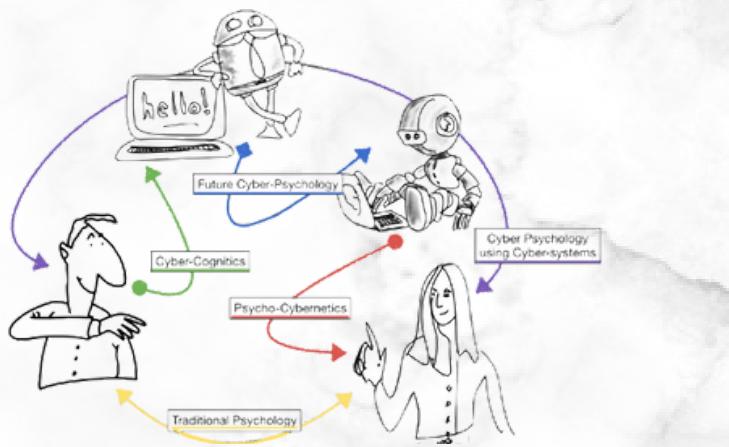
God of War Ragnarök, the latest installment in the God of War series, takes players on an epic journey through ancient Scandinavia, where they join the series' protagonist Kratos and his son Atreus as they face the events of Ragnarök, the end of the world in Norse mythology. The game was developed by Santa Monica Studio and published by Sony Interactive Entertainment, and it was released worldwide on November 9, 2022, for the PlayStation 4 and PlayStation 5 consoles. Building on the previous game's gameplay mechanics, the game features combo-based combat, puzzle-solving, and role-playing elements. In addition to Kratos' weapons, a battle axe and double-chained blades, players can also use a magical spear and a versatile shield with different offensive and defensive abilities. For the first time in the series, players can take full control of Atreus in some story missions, where he uses his magical bow as his weapon, adding to the game's dynamic gameplay.

So, if you're a fan of the God of War franchise, don't miss out on this latest installment!

## What is Cyber Psychology?

Cyber psychology is the study of how people interact with technology and how technology affects human behavior, thoughts, and emotions. It examines the ways in which individuals engage with digital technology, including social media, online games, and virtual environments, and how this affects their psychological well-being.

Cyber psychology also explores the impact of technology on communication, relationships, and identity formation. It examines how people present themselves online, how they communicate and interact with others in digital environments, and how this affects their sense of self and relationships with others.



The field of cyber psychology is an interdisciplinary exploration of psychology, sociology, communication studies, computer science, and related fields. It is an essential area of study in our ever-evolving digital age, as technology profoundly influences how we interact with and navigate the world around us.

## Why is Cyber Psychology Important?

In today's society, technology permeates nearly every aspect of people's lives, leading to a significant transformation in human behavior. As a result, the field of cyber psychology has emerged as a critical discipline dedicated to studying how individuals interact, behave, and perceive the world through the lens of technology and devices. By investigating the psychological implications of this digital shift, cyber psychologists contribute valuable insights into understanding the complex dynamics between humans and technology in the modern era.

# Non-Tech Blogs

## Cyber Psychology

### What does a cyber-psychologist do?

Because cyber psychology is the study of how online and virtual technology affects human behavior and how our behavior changes online, much of cyber psychology research has been driven by the Internet and social media. Thus, cyber psychologists examine phenomena like video game and Internet addiction, social media anxiety, augmented reality and personality disorders linked to social media.

### Here are some questions that a cyber-psychologist might research:

- What is the potential impact of online social networking on a person's well-being?
- How does playing video games impact a person's brain development?
- What are the positive and negative mental health outcomes of using social media (e.g. anxiety, depression etc.)
- How does narcissism relate to selfie-related behaviors?
- Can generation differences cause family communication problems?
- What are the psychological factors influencing online aggression and cyberbullying?

Additionally, cyber psychologists are also studying technology's impact on mental therapy. In fact, virtual reality is being used to treat people with depressive symptoms and other mental disorders. Their work may involve researching e-therapy as an effective option to in-person therapy.

## Presentation Skills:

Presentation skills can be defined as a set of abilities that enable an individual to interact with the audience; transmit messages with clarity; engage the audience in the presentation; and interpret and understand the mindsets of the listeners. These skills refine how you put forward your messages and enhance your persuasive powers.

The present era places great emphasis on good presentation skills. This is because they play an important role in convincing clients and customers. Internally, management with good presentation skills is better to communicate the mission and vision of the organization to the employees.

### Importance of Presentation Skills



We define a presentation as a means of communication that can be adapted to various speaking situations, such as talking to a group, addressing a meeting, or briefing a team.

Presenting information clearly and effectively is a critical skill in getting your message across. Today, presentation skills are required in almost every field, and most of us are required to give presentations on occasion. While some people take this in their stride, others find it much more challenging.

It is possible to improve your presentation skills with a bit of work. You need to be clear about your audience and your message. Every presentation will be better if you have clearly considered the news that you want or need to convey, and the best way to convey it to your audience. These two pieces of information drive your style, structure, content, and use of visual aids.

# Non-Tech

# Blogs



## *Presentation Skills*

### How to Improve Presentation Skills?

The development of good presentation skills requires effort and hard work. To improve your presentation skills, you must:

**Research the Audience before Presenting:** This will enable you to better understand the traits of the audience. You can then develop messages that can be better understood by your target audience. For instance, in the case of an analytical audience, you can add more facts and figures to your presentation.

- **Structure your Presentation Effectively:**

The best way to do this is to start by telling the audience, in the introduction, what you are going to present. Follow this by presenting the idea, and finish off the presentation by repeating the main points.

- **Do a lot of Practice:**

Rehearse but do not go for memorizing the presentation. Rehearsals reduce your anxiety and enable you to look confident on the presentation day. Make sure you practice out loud, as it enables you to identify and eliminate errors more efficiently. Do not memorize anything as it will make your presentation look mechanical. This can reduce the degree of audience engagement.

- **Take a Workshop:**

Most medium and large businesses allow their employees to take employee development courses and workshops, as well-trained employees are essential to the success of any company. You can use that opportunity to take a workshop on professional presentation skills such as those offered by Langevin Learning Services, which are useful for all business professionals, from employees to business trainers and managers.

# REPO OF THE MONTH

## {TECH VAULT}

*Start your journey in trending Technologies, which has a roadmap plotted for your journey ahead to get high salary jobs*



**SCAN HERE**

Ted talks are one of the greatest ways to learn stuff, you can curate videos on almost any topic and can get a basic overview of it. Given below are some great ted talks that a programmer should watch.



## 2.The Mind behind linux-LINus Torvalds

*Legendary talk by the creator of Linux; he explains his mindset and thought process of being an engineer.*



## 4.THINK LIKE A CODER - A playlist by TED-Ed

*This playlist will help you to get a programming mindset by looking at a certain problem.*

# Guide to Everything

*TED Talks for Programmers*



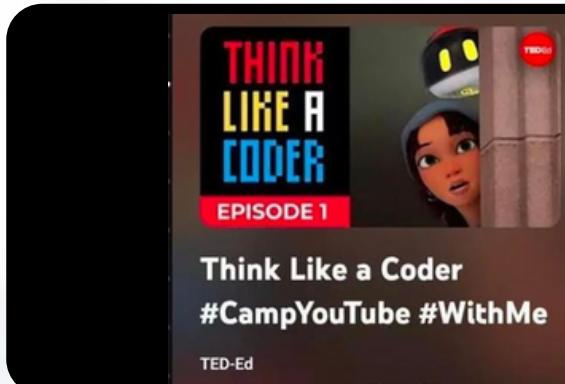
### 1.BLOCKCHAIN:Massively simplified-Richie Etwaru

*If you want to become a blockchain developer then you should watch this talk. It's about the basic overview of blockchain.*



### 3.How algorithms shape our world - Kevin Slavin

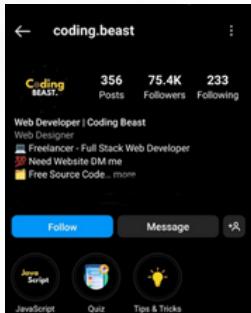
*How Algorithms Shape Our World-In this talk, Kevin explains the crucial importance of programming and algorithms that a programmer should consider.*



There are some widely popular Instagram accounts that consistently post on topics related to Programming and other information on Instagram.

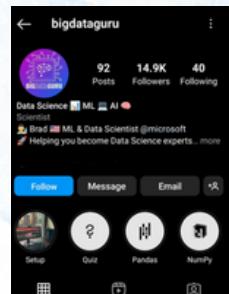
# Guide to Everything

## *Instagram Pages*



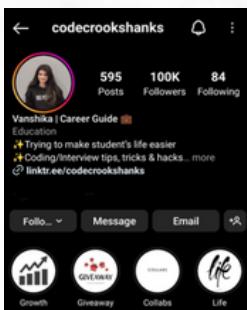
### 1. Coding Beast

If you work in web development, Coding Beast has a wealth of informative posts on tips and tricks working with Javascript, React, improving your CSS skills and other useful thoughts and ideas for front-end development.



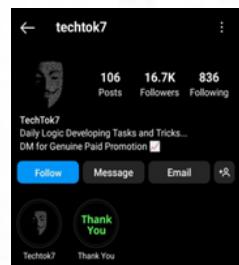
### 2. Big Data Guru

They have some really good stuff related to data science, Machine learning, and Artificial Intelligence. They post daily quizzes related to machine learning focusing on Numpy, Pandas, and ML effectively.



### 3. Codercrookshanks

This page has many tech related and Interview related tips and tricks. The owner is from Pune itself.



### 4. TechTok7

Looking for some really good challenges and tasks to improve programming skills? Practise pattern problems by referring to this page.



### 5. Futurism

Futurism aims to bring the world, the news, products, and narratives of tomorrow, today. It has many tech stuff and other science related things.

# Guide to

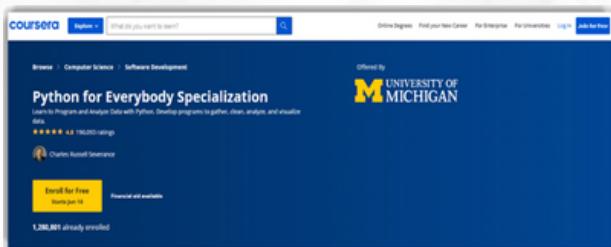
# Everything

Courses



To excel in the field of computer programming, you need to know where to look for free computer programming courses, and work with the best on each site. Following is the list of courses curated to excel in the field of computer programming.

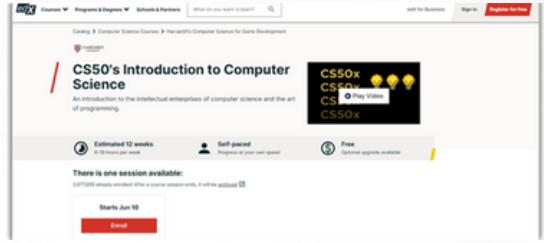
## 1. Python for Everybody Specialization (Coursera)



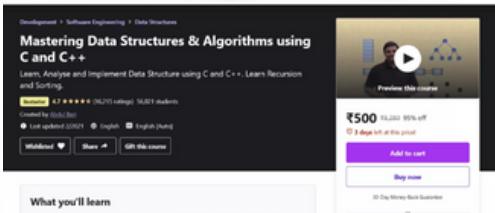
"Python for everybody specialization" is a course that helps you to learn the basics of programming using Python language. This course introduces you to the fundamental programming concepts, including data structures, Networked application program interfaces, using the Python programming language.

## 2. CS50's Introduction to Computer Science (edX)

Harvard CS50 is an entry-level free online computer science course which helps you to learn how you can think algorithmically and solve problems efficiently.



## 3. Mastering Data Structures & Algorithms using C and C++ (udemy)



You may be new to Data Structure or you have already Studied and Implemented Data Structures but still you feel you need to learn more about Data Structure in detail so that it helps you solve challenging problems and use Data Structures efficiently.

## 4. Machine Learning with Python (freecodecamp)

Machine learning has many practical applications that you can use in your projects or on the job. In the Machine Learning with Python Certification, you'll use the TensorFlow framework to build several neural networks and explore more advanced techniques like natural language processing and reinforcement learning.



## 5. Data Science Foundations (Great learning)



The Data Science Foundations course proffers your knowledge on the introduction to the subject and gives you insights into the different phases of its life cycle.

# Guide to

# Everything

Tech Shows and Movies

From thrilling cybercrime dramas to mind-bending sci-fi adventures, these shows and movies bring futuristic concepts and digital wonders to life. Join us as we delve into the electrifying world of tech entertainment, where innovation meets storytelling.



## THE SOCIAL DILEMMA



It's so important to be aware of how social media works behind the scenes, how it works to control us in the way it's designed. In this documentary Tech experts from Silicon Valley sound the alarm on the dangerous impact of social networking, which Big Tech use in an attempt to manipulate and influence. It also shows, fairly accurately, how platforms harvest personal data to target users with ads and have so far gone largely unregulated. It is available to stream on Netflix.



## WESTWORLD

The story takes place in the 2050s, when a corporation owns and operates a number of amusement parks, including the American Old West-themed 'Westworld,' where guests can engage in a Wild West-style simulation with firearms and horses. All of the characters in the amusement park, on the other hand, are androids with advanced artificial intelligence, which leads to some really intriguing challenges that will keep you on the edge of your seat.



## PERSON OF INTEREST



The 'Person of Interest' storyline revolves around a mysterious billionaire computer programmer who creates a supercomputer for the US government to collect the sources of information to prevent terrorist attacks and identify the people behind these as well. Also, the machine can identify other perpetrators and the victims of other premeditated crimes which accelerates the story too deeply. Moreover, the pairing of the protagonist with a former CIA agent and other instances make the story more thrilling and interesting. This series has 5 seasons with the last season released in 2016. It is available to stream on Amazon Prime Video.

## What is Casual Machine Learning?

It is a system for mining causal knowledge from large corpuses of text documents, such as millions of news articles. An important semantic relation for all these applications is the causal relation. It uses causal machine learning with text mining to develop models to extract engaging inferences from secondary data sources. Due to the abundance of text data available today we have a chance to extract causal meaning from the text using new and state of the art causal machine learning technology.

## What is Causal Reasoning?

Causal reasoning is a concept of relating effects to cause.

**Causality:** Causality is a fundamental concept that helps us understand how one event, process, or state can contribute to the production of another event, process, or state, with the cause being partially responsible for the effect and the effect being partly dependent on the cause. This cause-and-effect relationship plays a crucial role in comprehending the interconnectedness and dynamics of various phenomena.



**CausalML**

**Causal machine learning:** Machine learning based on correlational pattern recognition is insufficient for robust predictions and reliable decision-making. New approaches to machine learning based on principles of causal reasoning provide a promising path forward.

# Short Passage

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## Casual ML

Guided by joint formal reasoning over observations and auxiliary information about data collection procedures or other domain knowledge, causal machine learning methods are grounded in the stable and independent mechanisms that govern the behaviour of a system being modelled. As a result, these methods promise robustness to exogenous changes and accurate modelling of counterfactual or “what-if” scenarios that are core to scientific experimentation, understanding, and decision-making.

### Benefits of Causal ML:

- The ability to uncover the causes and effects of different phenomena in complex systems would help us build better solutions in areas as diverse as health care, justice, and agriculture.
- If we understand why something happened, we can change our behaviour to improve future outcomes.
- Causal inference would enable us to go one step further and figure out what would happen if we decide to change some of the underlying assumptions in our model.
- Understanding cause and effect would make existing AI systems smarter and more efficient. For instance, “think about a robot that understands that dropping things causes them to break would not need to toss dozens of vases onto the floor to see what happens to them”.

## Action Anime:

Action genre comprises fluid animation, battle scenes, and super-engaging elements that activate your adrenaline system.

Naruto is a manga series by Masashi Kishimoto, following Naruto Uzumaki, a young ninja aiming to become the Hokage and gain acknowledgment from his peers. Naruto Shippuden consists of 500 episodes, while Naruto has 220 episodes.

## Adventure Anime:

Typically, the adventure genre mainly focuses on undertaking epic quests and traveling around the world or some unpopular dimensions.

One Piece is an adventure manga series by Eiichiro Oda, following Monkey D. Luffy, a rubber-powered young man who embarks on a journey inspired by his idol to find the legendary treasure, the One Piece, and become the Pirate King.

## Comedy Anime:

The central theme of a typical comedy genre is to make the viewer laugh. A comedy anime that doesn't make its watchers at least giggle, let alone laugh, has failed in its purpose.

One-Punch Man is a manga series by ONE, featuring Saitama, a superhero who becomes bored due to his ability to defeat any enemy with just one punch.

# Short Passage

## ††, The world of Anime



## Drama Anime:

A drama anime will try to connect you with the character's experiences. A drama anime that succeeds in making you feel emotional can be said to have worked effectively in accomplishing its mission.

"I Want to Eat Your Pancreas" is a drama anime where a high school student befriends Sakura Yamauchi, a classmate with a terminal illness. They bond during her final moments.

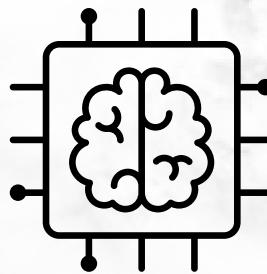
ACTION	ADVENTURE	COMEDY	Drama
<ul style="list-style-type: none"><li>• Fullmetal Alchemist</li><li>• Kill la Kill</li><li>• Darker than Black</li></ul>	<ul style="list-style-type: none"><li>• 1. One Piece</li><li>• Hunter X Hunter</li><li>• Spice and Wolf</li></ul>	<ul style="list-style-type: none"><li>• Gintama</li><li>• Nichijou</li><li>• Spy x Family</li></ul>	<ul style="list-style-type: none"><li>• Your lie in April</li><li>• 2. Little Busters</li><li>• 3. Anohana</li></ul>

## What Is Artificial Intelligence (AI)?

Artificial intelligence (AI) simulates human intelligence in machines, enhancing various industries. AI aims to improve learning, reasoning, and perception. It makes our lives easier, minimizing human effort. These technologies speed up tasks with precision, guaranteeing accuracy and efficiency.

AI is found in everyday gadgets, simplifying our work. Its importance lies in minimizing manual intervention and maximizing automation. AI's impact extends beyond daily life.

Machine learning algorithms accurately predict crucial use cases, such as diagnosing diseases based on symptoms and health records. These technologies make our world more efficient and error-free, benefiting industries and everyday tasks.



## How is Artificial Intelligence Used in Business?

There are many ways that AI can be used by businesses, but most applications focus on driving growth. By embracing AI and machine learning, companies are finding innovative ways to help business performance. Some business benefits of AI include:

- Boosting efficiency through process automation
- Improving the speed or consistency of service
- Using customer insights to inform decision-making
- Uncovering opportunities for new products and services AI can fit within nearly any business strategy.

# Career Paths

## Artificial Intelligence



**Artificial intelligence (AI)** has become an essential part of various industries, including healthcare, transportation, banking, and entertainment.

**Here are some examples of how AI is being used:**

1. **Healthcare:** The use of healthcare bots provides 24/7 assistance and manages appointments. AI-based machines are also used to improve efficiency and accuracy in predicting and diagnosing illnesses.
2. **Air transport:** AI helps optimize the operation of air transport by planning routes, managing flight take-offs and landings, and ensuring the correct operation of aircraft components.
3. **Banking and financial institutions:** AI plays a vital role in managing financial transactions, detecting suspicious activities, and analyzing credit systems.
4. **Gaming and entertainment:** AI has revolutionized the gaming industry by allowing for personalized details and graphics, creating a more immersive experience for players.

Overall, AI has made many operations and tasks more efficient and accurate while also providing new opportunities for innovation and growth.

To begin with AI, understand the role of data collection and analysis in the process. By studying AI methodology, you can assess its potential in your industry. Wharton Online's AI for Business program provides a solid foundation. AI is extensively employed in business, spanning marketing, operations, and customer service. Its applications are diverse.

# Career Paths

## Artificial Intelligence



### 7 Top AI Engineer Jobs:

The salary earned by AI engineers throughout their careers largely depends on their expertise and experience. Let's take a look at some of the jobs for AI engineers where the salaries are the highest.

Job Title	Educational Requirements	Skills	Years of Exp.	Average Salary
Machine Learning Engineer	Master's or PhD in maths, CS or AI	<ul style="list-style-type: none"> <li>• Neural networks</li> <li>• Programming</li> <li>• Data modelling</li> </ul>	4+ years	\$146,801
BigData Engineer	PhD in maths, CS, or a related field.	<ul style="list-style-type: none"> <li>• Computer programming</li> <li>• Databases and SQL</li> <li>• Big data frameworks</li> </ul>	2+ years	\$130,674
Data Scientist	Master's or PhD in CS	<ul style="list-style-type: none"> <li>• Statistical analysis</li> <li>• Machine learning</li> <li>• Data visualization</li> </ul>	Entry level master's	\$126,927
Artificial Intelligence Engineer	Bachelor's or master's in Maths, CS/IT or AI	<ul style="list-style-type: none"> <li>• Programming</li> <li>• Statistical analysis</li> <li>• Data engineering</li> </ul>	5+ years	\$114,000
Research Scientist	Master's or PhD in computer science	<ul style="list-style-type: none"> <li>• Statistical analysis</li> <li>• Data modelling</li> <li>• Applied research</li> </ul>	6 to 10 years	\$111,351
Software Engineer	Bachelor in CS or related fields	<ul style="list-style-type: none"> <li>• Programming</li> <li>• Object-oriented design</li> <li>• Problem-solving</li> </ul>	3+ years	\$107,346
Business Intelligence Developer	Bachelor in engineering, CS, or a related field	<ul style="list-style-type: none"> <li>• Business analysis</li> <li>• Data analysis</li> <li>• Programming</li> </ul>	3+ years	\$100,572

Greetings, everyone. I'm Shyam Lokhande, accompanied by Swaraj Mhatre, welcoming you to our annual podcast on Professor's Talk. Today, we are fortunate to have Professor Urmila Kalshetti Ma'am, one of the finest teachers in PVG's COET and GKPIOM. Your journey as a teacher is both fascinating and impactful, and we are eager to hear your story and the valuable lessons you have learned throughout your career.



# Professor's talk

**Prof. Urmila Kalshetti**

## **Will you please elaborate your educational qualifications?**

Yes. Hello Swaraj and Shyam. I am Urmila Kalshetti. I have been working in the Pune Vidyarthi Griha's College of Engineering Technology for 17 years. I completed my school education in the city 'Latur'. I completed 11th and 12th from a renowned college of Latur which is known for Latur pattern, called as 'Shahu College', and then I got admission in 'WIT Solapur' in computer science and engineering branch'.

I got sixth rank in the university. After that I got a job in Pune. Initially, I was striving for a job in a software company.

But due to some circumstances, I got a job in teaching. And after that, after my marriage, I completed my postgraduate degree from the Government College of Engineering Pune. Currently I'm pursuing Ph.D. from Savitribai Phule University, and my research center is AISSMS college of engineering.

## **What is your inspiration behind choosing teaching as your career?**

Frankly speaking, in my dreams, teaching was not there at all. But when I passed out in 2001, there was a huge slack in the industry, and getting a job was very difficult. So instead of sitting idly, I just thought of joining the college for teaching and parallelly looking for jobs in software. But as I started teaching, I got fascinated by it. I started liking this job of teaching and from there on I continued teaching.

## **Ma'am, can you please tell us a story about the situation, which do you think is the greatest success, and which can be the greatest success story in your teaching career?**

Okay it's about my story you want to know? Everyone in my life who I met, I always used to take inspiration from. And in my final year, our neighboring Uncle used to say, "You will get rank." And I used to get motivated by that. That was my inspiration to study more and more. I always liked to study but after that, it was very fascinating. I haven't thought of it but I used to study hard because of the thought "My uncle is expecting so much from me." And rank was not the objective but it comes with this one more thing when I was preparing for GATE, that phase I recall a number of times because I enjoyed that. Despite the job, in my family, I have a small kid and I used to manage everything with that, I used to manage my GATE studies also. So planning for the study and then planning for work in the college, planning at home that was done so well. Even I am sometimes proud of myself that I managed to do it and I got a good score in it. So that was a part of my success.

**But success doesn't come without obstacles. Obstacles are part of life. What difficulties did you face while reaching this position and how did you overcome those difficulties?**

Okay. I'll start with my engineering education. I had good marks where I could have got admission in the VJTI Mumbai. Despite being from educational backgrounds, I have everyone well educated in my family, but they were hesitant to send me far from my native place. But there I had to struggle a lot. I said, "You know I am going to go outside. I'm not going to stay here and I'm not going to get admission in any college. According to my rank, whichever is the best college I will get, I will take admission in it." So with a lot of quarrels and a lot of fights, I managed to get admission in WIT Solapur". Because my uncle was there. That is why I got into that college. As far as struggle is concerned, in the first year being away from home for the first time. It was difficult for me to concentrate on my studies and I got backlogs, that was my first failure, and was very difficult to digest. But yes, I managed and I managed first class throughout and then at the end, I got the rank in the university as well. So that was a tough time for me. And even with the family also, our economic condition was not good so we used to manage it. That was a tough time during my engineering education. Yes, but that struggle was always for good. And I can see now. I'm in a good position. In my world, you can see my favorite profession, and everything is well now and yes, as far as teaching is concerned, in teaching there is also a struggle, struggle for whatever role you are doing , every time you need to prove yourself; whether it's teaching or in some administrative tasks. And I think it happens in every profession, you have to prove your work and that is what we also have to do here.

**Success doesn't come without challenges. According to you, what are the challenges in front of educators?**

Especially the teachers who are teaching graduates, specifically, again, engineers. The biggest. The challenge here is like, over the period you need to upgrade yourself. And that is the biggest challenge. There is one more thing that is the generation that we are teaching. That generation is continuously changing. So we need to understand their mindsets. We need to cope with that and see how we can make knowledge more appealing to them. And yes, obviously we should always be updated with the technology. That is the biggest challenge.

**So as everyone knows, discipline leads to success. So I wanted to ask what role discipline plays in teaching and what is your approach.**

So discipline is the most important part of teaching. Because if a teacher is disciplined, then only students will be disciplined. And for that, I mean if we are expecting as teachers, students will do everything on time, timely submissions, or whatever task is given to them on time. You should be also doing that because the students learn from you. So for that, I always try my best to do daily deliveries from my side on time. And I always take care of that.

**As you said, the education system has changed a lot over the years. So what do you think? What are the challenges the education system is facing today?**

In today's education system, I find values are missing. Okay, so can you value respect or let's say, speaking the truth? Such values are a little lagging. And I'll say that it's due to the education system that we have. And definitely, we need to change. We need to have that change in the new education policy. It's being imparted to few of the subjects they have made compulsory, but by making it compulsory, we should go beyond it like we have to make them motivated to go for it. To go for value education. So value education is a must in the education system. Without that success won't come without that the happiness in our students won't come and which is a lifetime needed. These are the life lessons and these life lessons are missing. That is what I will say. In our times nobody used to teach these things, but that has been embedded with the situations with the circumstances with the family background. We that we got there but I think we have to make more efforts here rather than expecting it from the situations or from life with the experience itself. We have to make more efforts on how we can make the students aware of the value of education.

**So, in today's world, there are a lot of times when students feel low about themselves and during those situations, how do you encourage the students and help them to become a better person?**

Okay, a few years back, I attended a workshop on "Mission 10x". It was called "Mission 10x". And there I learned so many things about the teaching-learning process, where it was learned that it should not be just teaching but it should be facilitating, it should not be one way. You should always make sure that students are engaged in your lectures. And we got to know so many techniques about it. And after that, again, I attended one more workshop in which I got to know various active learning strategies. So it's not possible that every lecture I used to have this learning active learning strategy because for that, we need to plan but the takeaway of all these two important workshops, I used to ask questions in between I used to make sure that the students are getting whatever is being delivered to them. And yes, as I'm fortunate to have subjects like TOC or some mathematical subjects where there is a lot of problem-solving, I used to make sure that students are solving the problems they are understanding the concepts, and after ensuring only I used to go ahead on the next topic.

**You have been a part of PVG for a long time now, how would you describe PVG in one sentence?**

In one sentence, PVG is my second home, full of values and ethics.

**One of the best memories of life we make in college. So do you have any incidents or any memories, special moments in college that you made?**

If I can recall a few incidents that I used to cherish, one of them is when I was part of an organizing team for one workshop. The workshop name was "three days workshop on distributed systems". It was long back or maybe 10 years before. That was my first experience of organizing an event. Students get a lot of opportunities nowadays to organize events and all but that was my first opportunity. And it was managed so well. Everyone appreciated it, and I also felt satisfied with myself. So that was one of the best moments I was having. Apart from that, just a few batches before in one alumni meet, few students came to me and said yes, we remember your teaching, even today we recall those concepts of LinkedList, data structures. Once upon a time, I used to teach data structures. So they used to recall that and whenever we met they used to recall those moments, so I think that is the biggest achievement you can see being in the teaching profession that the students used to remember you for your teaching. So that is one of the best gifts for me.

**Last question, ma'am. What do's and don'ts will you suggest to students?**

Yes, I'll keep it concise. What should you do? Will specify the do's first. Think of happiness. Plan for happiness. The ultimate aim of anyone's life is happiness. You can just crush it yourself. You want a big salary on a big brand company's name affiliated with your name or you may have some great bungalows. You are dreaming of having a bungalow or you are dreaming of a big car, okay, but if you cross check yourself, what you need at the end is happiness. Is a particular thing that is making you unhappy really going to lead to happiness? And if it is not, then you just think of how I can get happiness in my life, because life is for that. So throughout life, we always want to be happy. The list of our non-ending stress is endless; like if I have a good job still I may feel that I'm not happy. Long back it was a dream that I will be happy when I will get a good job. But am I happy with that? So that is a question to be asked to yourself always. And then I mean you find out the source of happiness, whether this is the source of happiness and what is the constant source of happiness? Because one particular thing cannot be constantly the source of happiness like if you bought a car, right? You bought a car so for a few days you will be very happy and you will enjoy the ride in the car. But after that, are you still happy? So that is what you have to work on and to find out on your own. For happiness. This is about do's, and I have similar lines for don't like at some point in time if you feel uncomfortable or if you feel that, no this is not my way. Right. You just quit. Yeah, there are compromises in life. But when you get a lot of suffering with those compromises, don't go for compromises. If compromises give you happiness in some way. You go for it, otherwise don't go for it.

*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.*

"Stay ahead of the game with the latest competition updates, fueling your competitive spirit."

# Competition Updates

- **Google Hash Code:**

**Online Qualification:** 15th April 2023

**World Finals:** 29th July 2023

**Registrations ongoing**

**Link:** <https://codingcompetitions.withgoogle.com/hashcode>

- **Job-A-Thon:**

**Date:** 21st April 2023

**Registrations ongoing**

**Link:** <https://practice.geeksforgeeks.org/contest/job-a-thon-19-hiring-challenge>

- **Codechef Starters 85:**

**Date:** 12th April 2023

**Registrations ongoing**

**Link:** <https://www.codechef.com/START85>

- **CODERUSH-X:**

**Date:** 12th April 2023

**Registrations ongoing**

**Link:** <https://www.newtonschool.co/coderush>

- **Volt MX Hackathon 2023**

**Registration Starts:** 14th March 2023

**Registration Ends:** 15th May 2023

**Link:** <https://voltmx.hackerearth.com/>

# TECH JOKES

## A programmer

What people think I do    What my parents think I do



What I think I do



What I really do



"Where did the software developer go? He probably ransomware!"



"So, you're a developer? That means you copy code from stack overflow right?"

Me:



# Team ACES 2022- 23

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Ajinkya Sahu

## Joint General Secretary

Pradnya Gaikwad

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**2022-23**

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