THE BYTE STREAM

LEARN EARN RETURN

DEPARTMENT OF

COMPUTER ENGINEERING

Official Newsletter – Issue 7

2025

Accredited with an ‘A’ grade by NAAC

NBA accredited since 2017-18 till June 2026

COMPUTER ENGINEERING DEPARTMENT

The Department was established in the year 1991. The intake capacity of the department has been increased to 180 and Master of Computer Engineering is started with intake 16 from the academic year 2024-25. To Promote Innovation and research, Department has started Ph.D. in Computer Engineering with Intake 10 from the academic year 2023-24.

The Department has competent, veteran and devoted faculty to provide industry-driven education to the students. The Department Infrastructure fulfills the requirements of academics and also supports research projects and learning skills to face the challenges of the industry. The Computer Engineering Department effectively prepares students to pursue leadership, technical and management positions in a variety of industries. The department has fetched many research grants. The department has a strong alumni network which further enriches the program by their involvement in departmental activities and guidance to students.

VISION OF DEPARTMENT

To be a center of excellence in Computer Engineering education that will produce self-motivated, and globally competent individuals through holistic development.

MISSION

- *Build state-of-the-art infrastructure that can accommodate cutting-edge technology and is constantly updated in response to the needs.*
- *To emphasize on experiential learning and holistic development in order to pursue academic excellence and inculcate research aptitude through high-quality research publications*
- *Enable the students to foster innovative ideas in pace with the emerging technologies*
- *Encourage faculty members to pursue higher education/research and stay abreast with the latest technology.*

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MESSAGE FROM HOD

Dr. Sujata Deshmukh
Head of Department
Computer Engineering Department

Theme: Learn. Earn. Return.

Dear Students and Readers,

Welcome to the world of Computer Engineering, where every Byte of knowledge has the power to build a better tomorrow. In this transformative AI decade, we stand at the crossroads of rapid technological growth and profound societal responsibility. At our department, we believe in a guiding philosophy that resonates with purpose: Learn. Earn. Return.

Learn: Our curriculum is designed not just to teach—but to ignite curiosity, creativity, and courage. Through deep dives into AI, machine learning, cybersecurity, IoT, cloud, quantum, and more, we equip students with future-ready skills while grounding them in strong engineering fundamentals. Learning here is about solving real-world problems, not just clearing exams.

Earn: Our students secure lucrative placements with leading companies and cutting-edge startups. The skills acquired through internships, projects, and collaborative learning also open doors for higher studies at global institutions, and for those with an entrepreneurial spark, the launch pad to startups with impact.

Return: But what truly defines success is what we give back.

In a time where we have only one Earth to live on—and no other planet yet within reach—our responsibility toward sustainability has never been more urgent. Through socially conscious engineering, green computing, and responsible innovation, we encourage students to design solutions that conserve, restore, and sustain.

Whether it's AI for climate prediction, IoT for smart farming, or data-driven healthcare, our students are being shaped not just as engineers, but as guardians of the future. Technology must serve people and the planet—and this starts with each one of us.

In this decade defined by AI, your role is more than just coding or computing. Be a lifelong learner, a contributor to the economy, and above all, a champion of sustainability. Let your journey be one where you learn to grow, earn with integrity, and return to uplift humanity and protect our only home—Earth.

Together, let's build a future that's not just smarter, but also kinder and more sustainable.

Warm regards,

Dr. Sujata P. Deshmukh
Professor and Head, Department of Computer Engineering
Fr. Conceicao Rodrigues College of Engineering, Mumbai

EDITOR'S DESK

Prof. Sangeeta Parshionikar

Assistant Professor
Department of Computer Engineering
Newsletter Faculty In-charge

Slora Bar

SE Computers C
Newsletter Student Incharge

Learn, Earn, and Return: A Lifelong Mantra

Learn, Earn, and Return - a guiding philosophy that nurtures both skill and purpose, instilling a deeper sense of responsibility to give back and create meaningful impact in society. The first phase, *learn* begins within the classrooms, laboratories, and collaborative spaces of our department. Here, students imbibe the fundamentals of computer science, problem-solving, critical thinking, and innovation. Whether it's learning to code, designing algorithms, building systems, or exploring AI and IoT, projects and competitions provides a strong foundation. However, learning is not merely academic, it is about values, ethics, and empathy too.

The second phase, *earn*, is where learning transforms into action. Armed with skills and passion, graduates step into the professional world contributing to startups, tech giants, R&D labs, and entrepreneurial ventures. The earning phase is about gaining experience, achieving financial stability, and pushing the boundaries of innovation. But here's the vital reflection: earning should not be the final destination.

This brings us to the most profound phase *returning*. As engineers and educated citizens, we owe a debt to the society that nurtured us from the teachers who taught us, to the infrastructure we used, and the community that supported our growth. Returning doesn't always mean financial contributions; it takes many meaningful forms: mentorship, innovation for social good, institutional giving, supporting alma mater through guest lectures, collaborations, internships, and industry-academia bridges.

As the editor of this newsletter, I invite all students and graduates to adopt this mantra -*Learn with passion, earn with integrity, and return with purpose*. Let our computer engineering community not only excel in innovation but also lead in compassion.

ALUMNI STORY

Anish John Sabu Alapattu

A Journey of Growth and Learning at Fr. Agnels College

My journey at FRCRCE began with a mix of excitement and nervous anticipation. Like many fresh engineering students, I walked onto the campus with big dreams but uncertain of the path ahead. The welcoming faculty, supportive seniors, and vibrant campus life quickly made me feel at home.

Academically, FRCRCE laid a solid foundation through rigorous coursework, practical labs, and engaging projects. I vividly remember long hours spent in labs, collaborating with classmates to solve challenging problems, and late-night as well as just-before-the-exam study sessions that forged lifelong friendships. I also fondly recall participating in group assignments and lively discussions in class that further enhanced my learning experience.

A particularly memorable turning point for me occurred during my second year when I participated in a hackathon organized by our college. At that time, my familiarity with computer science concepts and technologies was limited, but I felt confident I could tackle the problem statement if given enough time and resources. However, reality hit hard when my team couldn't complete even the basic requirements of what, in hindsight, was just a simple CRUD web application. This event was an eye-opening experience, pushing me to dedicate myself to learning beyond the curriculum and stepping outside my comfort zone.

Determined to overcome this setback, I embraced every opportunity to learn, grow, and apply myself. Two years later, in my fourth year, I again participated in FRCRCE's Unscript Hackathon 2019. My team's persistent effort and skills culminated in us winning the first prize in the AI & ML problem statement category. Receiving this recognition was an incredibly rewarding experience and validated my journey of growth and perseverance.

Beyond academics, extracurricular activities played a significant role in shaping my character and skillset. Participating in technical events, workshops, and college festivals taught me teamwork, leadership, and time management.

However, the journey wasn't without challenges. There were moments of self-doubt, particularly during rigorous semesters or when projects didn't go as planned. I remember times when our team had to start over on a project just days before the deadline. Yet, these experiences taught me resilience, adaptability, and problem-solving—qualities that have greatly benefited me in my professional career.

Internships and industry interactions arranged by FRCRCE also significantly influenced my growth. The opportunity to engage with leading technology personalities allowed me to bridge the gap between theory and practice. I still remember my early days in my first organization where FRCRCE campus recruits were among the few who could readily relate to industry-oriented DevOps tools, all thanks to the extra efforts of our professors who proactively familiarized us with these tools.

Today, as I stand firmly in my role as a Senior Data Scientist, I deeply appreciate how my alma mater equipped me with the technical expertise and soft skills required in the competitive industry landscape. The college instilled in me a growth mindset, curiosity, and an unwavering commitment to continuous learning—values I carry forward every day. My professional journey has been significantly shaped by the comprehensive education and holistic development opportunities offered by FRCRCE.

My advice to my juniors is simple: Embrace every opportunity this college offers, stay curious, and never shy away from challenges. Be proactive in seeking internships, participate actively in extracurricular activities, and value teamwork. The friendships, lessons, and experiences you gain here will be your pillars of strength in your professional journey.

COMPUTER ENGINEERING DEPARTMENT

“ The commitment to unity and a passion for learning “

Nurturing Minds to Learn, Empowering Them to Earn, Inspiring Them to Return — Our Computer Engineering Faculty

CLASS PHOTOGRAPHS

BE COMPS A

BE COMPS B

CLASS PHOTOGRAPHS

TE COMPS A

TE COMPS B

CLASS PHOTOGRAPHS

SE COMPS A

SE COMPS B

CLASS PHOTOGRAPHS

FE COMPS A

FE COMPS B

FE COMPS C

COMPUTER DEPARTMENT STAR PERFORMERS

Mr & Miss CRCE

STEFFI PETER RAJ
TE COMPUTERS A

BRYCE MIRANDA
BE COMPUTERS B

BE ALL ROUNDER

SANIKA ROSARIO
BE COMPUTERS B

GDSC'S : BIT N BUILD INTERNATIONAL HACKATHON

FE COMPS Bit N Build 2024 – A Confluence of Innovation and Collaboration

From brainstorming sessions in classrooms to impactful presentations on the stage of Samvaad, Bit N Build 2024 was an event that reflected the spirit of innovation and collaboration at Fr. Conceicao Rodrigues College of Engineering. Organised by the Google Developer Student Clubs (GDSC) and hosted at Samvaad, the event was a proud milestone for our institution.

Spanning several rounds and involving participation from across the globe, BNB'24 brought together talented individuals from premier institutes like IITs and NITs in India, as well as renowned universities in Singapore, France, the United States, and beyond. Over 60 teams participated,some joining us in person at Bandra, others connecting virtually to tackle problem statements across AI, blockchain, and cutting-edge web technologies.

Yet, BNB'24 was more than just a competition of technical prowess. It was a space where ideas flourished, friendships were built over shared challenges, and mentors inspired participants to push boundaries. From the ceremonial lamp-lighting to the dynamic hackathon environment and the final announcement of results, the event demonstrated that innovation is not solely technical,it is driven by human connection and vision.
Here's to every late night, every obstacle overcome, and every solution discovered. Bit N Build 2024 reaffirmed that when passionate minds come together, extraordinary things can be achieved.

— Google Developer Student Clubs (GDSC), Fr. CRCE

UNPLUG – BY THE BEACH: REDEFINING STARTUP CULTURE

Unplug: By the Beach – A Startup Retreat Redefining Innovation and Collaboration

GDSC CRCE envisioned Unplug: By the Beach as more than just another startup event—it was designed to challenge the conventions of how ideas take shape and ventures are built. Set against the serene backdrop of Alibaug's coastline, the event brought together 121 students eager to think differently and push boundaries.

Over three immersive days, participants stepped away from formal settings and embraced an environment fuelled by open discussions, collaboration, and first-principles thinking. Instead of boardrooms and slide decks, conversations unfolded under palm trees and star-filled skies, with teams working tirelessly to identify real-world problems and craft innovative solutions across diverse fields including sustainability, mental health, education technology, smart cities, and social impact.
One of the most memorable moments was the bonfire pitching session, where teams shared their ideas without the usual filters of slides or scripts, speaking candidly about challenges and aspirations. Throughout the event, seasoned professionals from leading companies like Amazon, Oracle, Microsoft, DoorDash, and May Mobility provided invaluable mentorship, offering sharp insights into business strategies, scalability, and market realities. Investors engaged directly with teams, prompting them to defend their ideas and think critically about their ventures' viability.

By the end of Unplug, the experience had grown into more than a competition—it became a testament to what can happen when curiosity, community, and creativity converge. GDSC CRCE is deeply grateful to the mentors and investors who brought their time and wisdom to the initiative, and looks forward to continuing this journey of fostering authentic, unorthodox approaches to innovation and entrepreneurship.

— Google Developer Student Clubs (GDSC), Fr. CRCE

DEPARTMENT EVENTS

The department of Computer Engineering received grant for Two-week Advanced ATAL FDP

"Navigating the future of decentralised advanced blockchain technologies"

(9th -21st December, 2024)

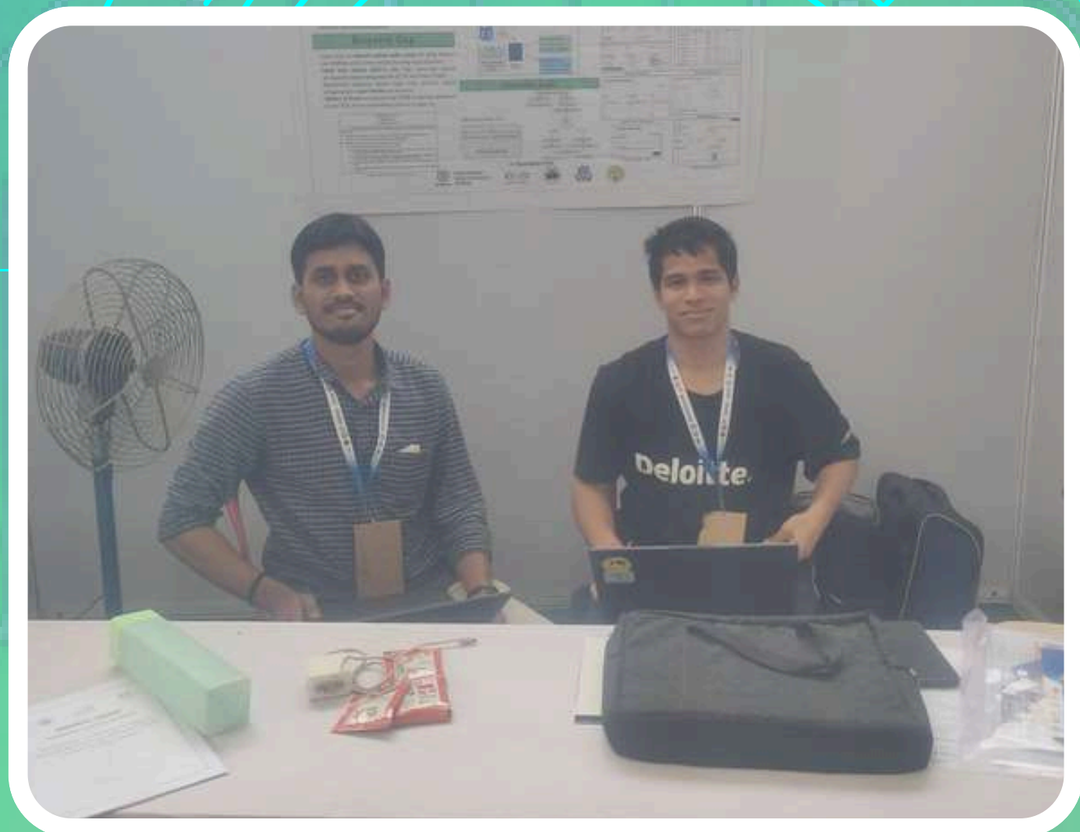
Co-ordinators: Dr. Ashok Kanthe & Dr. Vijay Shelake

ATAL FDP faculty industry visit

STUDENTS ACHIEVEMENTS

BE Computer students won SIH 2024

BE students, presented paper in International conference in Nagpur



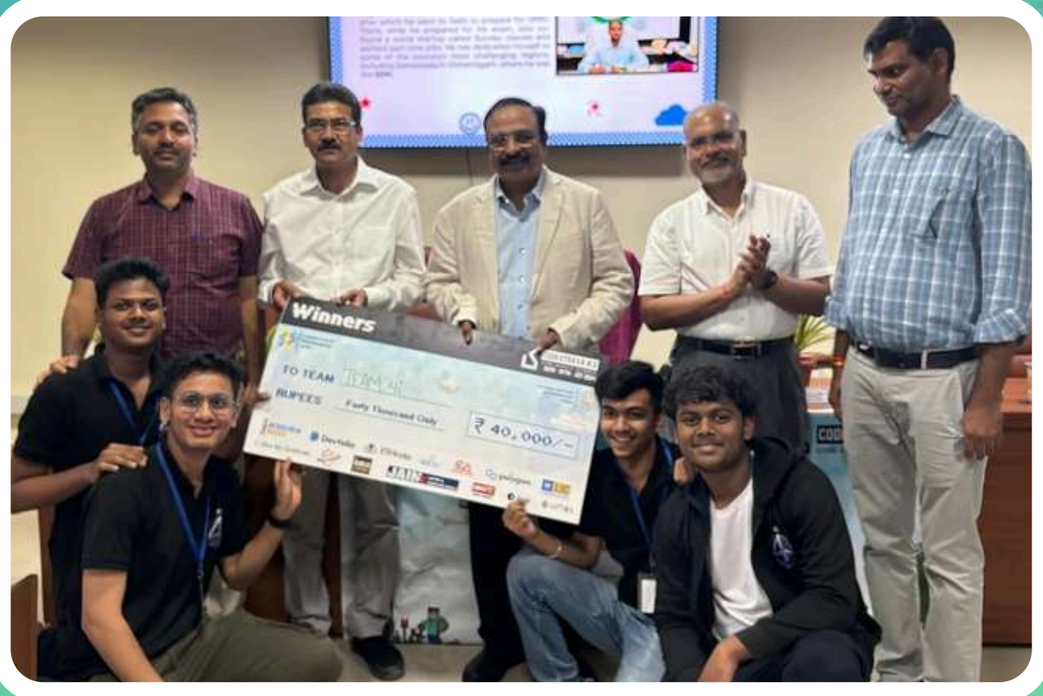
BE students participated in DIPEX-2025, a prestigious state-level exhibition-cum-competition of working models at COEP Ground Pune

TE students, winner of Hackathon at K J Somaiya college

STUDENTS ACHIEVEMENTS

TE students won hackathon HACKSPARK 1.0 at Thakur Engg College

SE students won code utsav at NIT Raipur



किया सॉफ्टवयर, मुबइ ाविनर

सिटी रिपोर्टर | एनआईटी के ट्यूरिंग क्लब ऑफ प्रोग्रामर्स की ओर से कोडोत्सव 8.0 का आयोजन किया गया। क्लब के ओवरऑल को-ऑर्डिनेटर विराज चंद्रा ने बताया कि कोडोत्सव में 40 टीमों के 150 से ज्यादा प्रतिभागी शामिल हुए। टीम को 28 घंटे का समय दिया गया था। इस दौरान उन्हें अपने प्रॉब्लम स्टेटमेंट के अनुसार सॉफ्टवेयर डेवलप करना था। विनर्स में फर्स्ट प्राइज 40 हजार, सेकंड 30 हजार और थर्ड को 20 हजार प्राइज देकर सम्मानित किया गया। विनर्स को नगर निगम कमिश्नर आईएएस अबिनाश मिश्रा, डायरेक्टर डॉ एनवी रमना राव, डीन डॉ. श्रीश वर्मा ने सम्मानित किया।

मदद से कोई भी गाड़ी से कोयला नहीं चुरा सकता। कोयला चोरी करने के लिए कोयला में पानी डाला जाता है ताकि वजन उतना ही रहे। हमारे सिस्टम के जरिए गाड़ी की सभी एक्टिविटी कंपनी को दिखती रहेगी। यही नहीं सिस्टम कोयला में मौजूद पानी भी मॉयश्चर भी आसानी से डिटेक्ट कर लेगा। वहीं वजन कम होने पर भी उसकी सूचना दे देगा।

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2024

(21) Application No.202421088815 A
(43) Publication Date : 06/12/2024

(54) Title of the invention : Project K.A (Kitchen Automate): Iot And Artificial Intelligence Based Smart Kitchen Trolley For Inventory Management And Recipe Generation

(51) International classification	:G06Q0010087000, G06Q0030060100, G16H0020600000, A47J0036320000, G06Q0050120000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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Address of Applicant : NA
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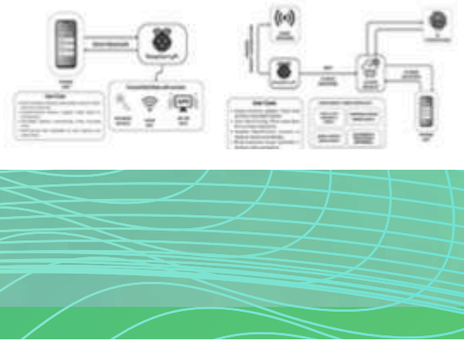
(57) Abstract :
The Smart Kitchen Inventory and Recipe Suggestion System is an IoT-enabled kitchen management solution designed to simplify meal planning and inventory tracking. Equipped with weight sensors, cameras, and a mobile app interface, this smart system automates ingredient monitoring, offers personalized recipe recommendations based on available stock, and generates grocery lists to streamline shopping. The system includes a sensor-enabled kitchen trolley with dedicated compartments, a cloud-based backend for data processing, and a mobile app for real-time updates, low-stock alerts, and meal suggestions. By combining sensor data with image recognition, the system ensures precise inventory management, minimizes food waste, and promotes ingredient freshness creating a more efficient and enjoyable cooking experience.



STUDENTS ACHIEVEMENTS

TE students won Prakalp 3.0

TE students, winner of HackDeck Hackathon 24 at Atharva College

TE students, won Hackathon at SPIT, Andheri, Feb 2025

TE Students received pre-incubation of the project Netfotress at the VJTI Technology Business Incubator (VJTI-TBI)

Netfortess secured the 3rd prize in the National Startup Day Idea and Innovation Competition 2025 , organized by VJTI TBI. The team comprises TE Comps B students—Neel Khot, Prakash Biswas, Rahel Pereira, Mokshada Rane and Mentor: Prof. Ashwini Pansare.

STUDENTS ACHIEVEMENTS

TE Comps B students Neel Khot, Rahel Pereira, Prakash Biswas and Mentor Prof. Ashwini Pansare were shortlisted to pitch their idea in front of investors at MIT World Peace University Pune in Udyomatsav 2025,an initiative by AICTE in collaboration with MOE

SE students, winner of Webathon at M.H. Saboo Siddik College Of Engineering

FE Student won first Prize in Tech Quiz organised by Katalyst India

SE students, 2nd Runner UP at K J Somaiya College Of Engineering

Winners of the Creative Coding in Python Competition for First Year Students, based on the theme "Cultural Preservation of India"

STUDENTS ACHIEVEMENTS

1.	Second Year students, Nishant Maurya, Yash Punmiya, Vinish Rexson,Harsh Dalvi Winner of Webathon @M.H. Saboo Siddik College of Engineering
2.	Second Year students, Nishant Maurya, Yash Punmiya, Vinish Rexson,Harsh Dalvi secured Third rank in Hackathon organized by K J Somaiya College of Engineering. (National Level)
3.	Second Year students, Nishant Maurya, Yash Punmiya, Vinish Rexson,Harsh Dalvi Winner of Hackathon at NIT Raipur. (National Level)
4.	Team Codie, consisting of Students Joel Pawar, Simona Rumao, Aditi Gupta, Angela Dsouza , Shubham Shanbhag, won SIH - 2024. (National Level)
5.	Third Year students, Siddhant Jadhav, Winner of IIE E Techithon'24 @Atharva College, Malad(w)
6.	TE students Siddhant Jadhav, Alisagar Lakdawala won first prize at Innoquest Hackathon organized by K J Somaiya College of Engineering.
7.	Third Year student, Sonia Pimenta, winner of Mumbai Hacks Hackathon.
8.	BE students Rudalph Golsalves, Shruti Patil, Siddhesh Pradhan presented a paper in International Conference at Nagpur, GH Raisoni Engg College.
9.	BE students Rudalph Golsalves, Shruti Patil, Siddhesh Pradhan - Winner of Avishkar -2024 Inter College competition (State level)
10.	TE students Neel Khot, Rahel Pereira, Prakash Biswas and Mokshada Rane Winner of Avishkar -2024 Inter College competition (State level)

STUDENTS ACHIEVEMENTS

11.	BE students Brita Nadar, Becky Nadar, Seema Yadav -Winner of Avishkar -2024 Inter College competiti on (State level)
12.	Team Netfortress secured the 3rd prize in the National Startup Day Idea and Innovation Competition 2025 , organized by VJTI TBI. The team comprises TE Comps B students—Neel Khot, Rahel Pereira, Prakash Biswas, Mokshada Rane and Mentor: Prof. Ashwini Pansare.(National Level)
13.	Second Year students, Nishant Maurya, Yash Punmiya,Vinish Rexson, Fredrick Nadar Winner of Quasar3.0 Hackathon @ Vasantdata Patil Pratishthan's college of Engineering (National Level)
14.	SE Computer Engineering Students Ojas Keni,Tanish Parkar as the Part Of Team CFR Secured 1st Place at the Business Plan Finals at Formula Bharat 2025 at Coimbatore. (NATIONAL LEVEL)
15.	Second year students,Rohan benegal,Ankit Satpute, Reniyas Nadar, Arshdeep kaur ,3rd prize at Hackqinox 2025 organised by Fr. Conceicao Rodrigues Institute of Technology,vashi
16.	Second Year Students, Mayank Mehta, Serene Dmello, Shane Dias, Jacell Jamble - Winner of TECHMANIA 2025 organised by L.S.Raheja College
17.	Second Year Students, Mayank, Serene, Shane, Jacell - 2nd Runner-Up at Saksham Ideathon 2025 organised by Rajiv Gandhi Institute Of Technology
18.	TE Comps B students Neel Khot, Rahel Pereira, Prakash Biswas and Mentor Prof. Ashwini Pansare were shortlisted to pitch their idea in front of investors at MIT World Peace University Pune in Udyomatsav 2025,an initiative by AICTE in collaboration with MOE (National Level)
19.	SE Students Neil Faber, Jack Sequeira, Gaurav Nile, Chris Fernandes secured 1st Runner-Up position at the XR Hackathon hosted by KJ Somaiya College of Engineering. (NATIONAL LEVEL)

STUDENTS ACHIEVEMENTS

20.	Third Year student, Vallen Dsouza Winner of Hackathon in EdTech Domain at NIT Karnataka. (National Level)
21.	Second Year Students, Mayank, Serene, Shane, Jacell - 2nd Runner-Up at Saksham Ideathon 2025 organiTE Students: Shwen Coutinho, Adwait Chavan, Mrugank Worlikar presented a Technical Paper on ‘Geospatial Analysis of Solar Energy Potential’ at the International Conference on Futuristic Aspects in Science and Engineering 2025, under the guidance of professor Dr. Supriya Kamoji ; at the ICFAI University Jaipur.(National Level) sed by Rajiv Gandhi Institute Of Technology
22.	Third Year students, Vallen Dsouza, Azaan Khan, Mahek Gupta & Joshua Dsylva secured First Runner up in the Hackathon organized by Thakur Shyamnarayan Engineering College. (State Level)
23.	Third Year Students, Mahek Gupta , Andronicus lal ,We won two awards at the Brainroot Jia.seed International Hackathon, including "Most Centered Div" and "This Project Is Awesome," for our innovative projects "Div Centering Wizardry" and "Emotisenese"!
24.	SE : Yash Punmiya , Vinish Rexson , Frederick Nadar , Chaitnaya Jathan Won 1st prize at 24hr Hackthon at Rgit
25.	TE : Joshua Dmello, Preetham Fernandes, Shashank Tiwari,Sakshi Kupekar Won First Runner up at IEEE Techithon, 2024 at Atharwa College
26.	FE student, Anjali Rawat secured first place in the tech quiz by Katalyst India organized Techfest at Vasantdada Patil Pratishthan's College of Engineering and Visual Arts.
27.	SE :- Yash Punmiya, Vinish Rexson, Nishant Maurya , Dhaval Khandhadia Won 1st prizes of 250$ bounty hosted by Influencer roshanvadassaery

STUDENTS ACHIEVEMENTS

28.	Third Year students, Shashank Tiwari ; Sakshi Kupekar ; Joshua Dmello ; Preetham Fernandes, Runner-Up of IIE E Techithon'24 @Atharva College, Malad(w)
29.	SE Students: Blaise Rodrigues, Vanessa Rodrigues won Hachshpere Hackathon for the Cybersecurity Domain organized by JSPM's Rajarshi Shahu college of Engineering Pune.
30.	Second Year Students: Liza Castelino, Romeiro Fernandes, Gavin Soares, Russel Daniel PaulRunner up at Coherence : Hackathon organised by Vartak college
31.	Second Year Students: Liza Castelino, Romeiro Fernandes, Aliqyaan Mahimwala, Gavin SoaresWinners of AuraFlix : Hackathon organised by Auraverse
32.	Second Year Student: Tanish Belel, Winner of Technova @Xavier Institute of Engineering
33.	Second Year Student: Tanish Belel, Winner of Hackathonicx @Get Tutorials
34.	SE Students : Blaise Rodrigues and Vanessa Rodrigues won Hacksphere Hackathon in CyberSecurity Domain Organised by JSPM's Rajarshi Shahu College of Engineering, Pune.
35.	Second Year Students, Jacell Jamble, Serene Dmello, Shane Dias - Runner-Up at Oscillations Hackathon 2025 organised by Vasantdada Patil College of Engineering.
36.	Second Year Students: Harsh Dalvi, Rohan Benegal, Swayam Choudhari, Ankit Satpute Runner up at Coherence : Hackathon organised by Vartak college
37.	Second Year Students: Harsh Dalvi, Rohan Benegal, Aditya Dabreo, Ankit Satpute Runner up at Saraswati College Of Engineering

STUDENT EXTRA CURRICULAR ACTIVITIES

Euphoria : Annual Cultural Fest

BE Students participating in Dance

FE Comps C

SE students participating in Fashion show

FE Comps A

FE Comps B

STUDENTS' SPORTS ACTIVITIES

INTERNSHIP UNDER THE GUIDANCE OF PROFESSOR OF PRACTICE, MR. ANIKET MHALA

Fourteen students completed Internship for the Project titled "AI enabled Homeopathy Digital Platform"

FACULTY INTERACTION WITH OUTSIDE WORLD

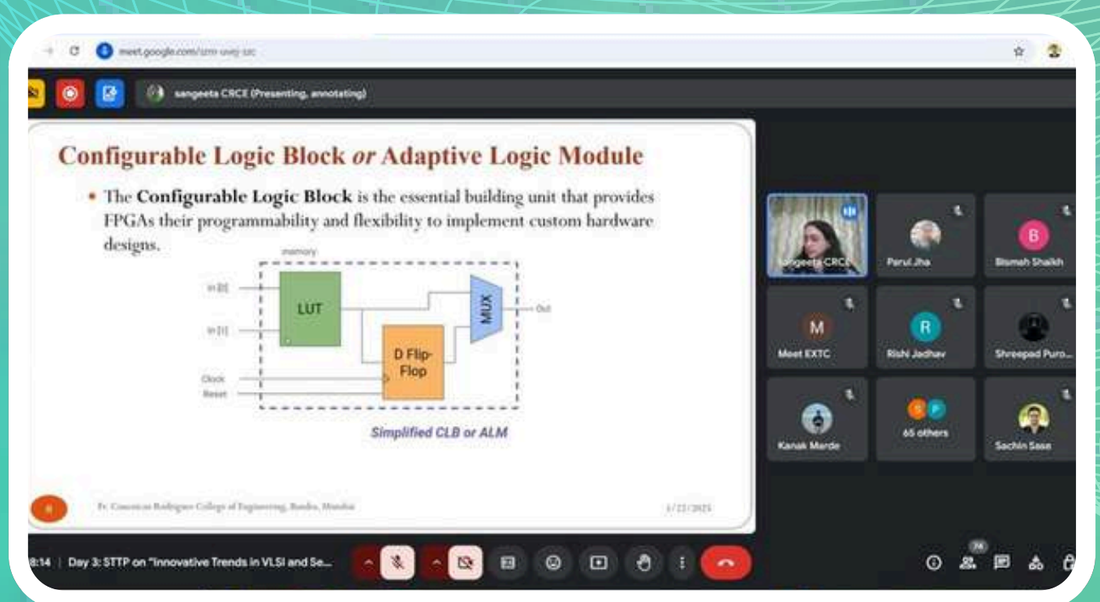
Dr. Supriya Kamoji delivered a session on "Theory in action: Exploring the practical side of the Computer Science" at Xavier Institute of Technology , Mahim on 3rd October 2024.

Dr. Supriya Kamoji is a member of Department Advisory Board of computer Department of Xavier Institute of Technology , Mahim.

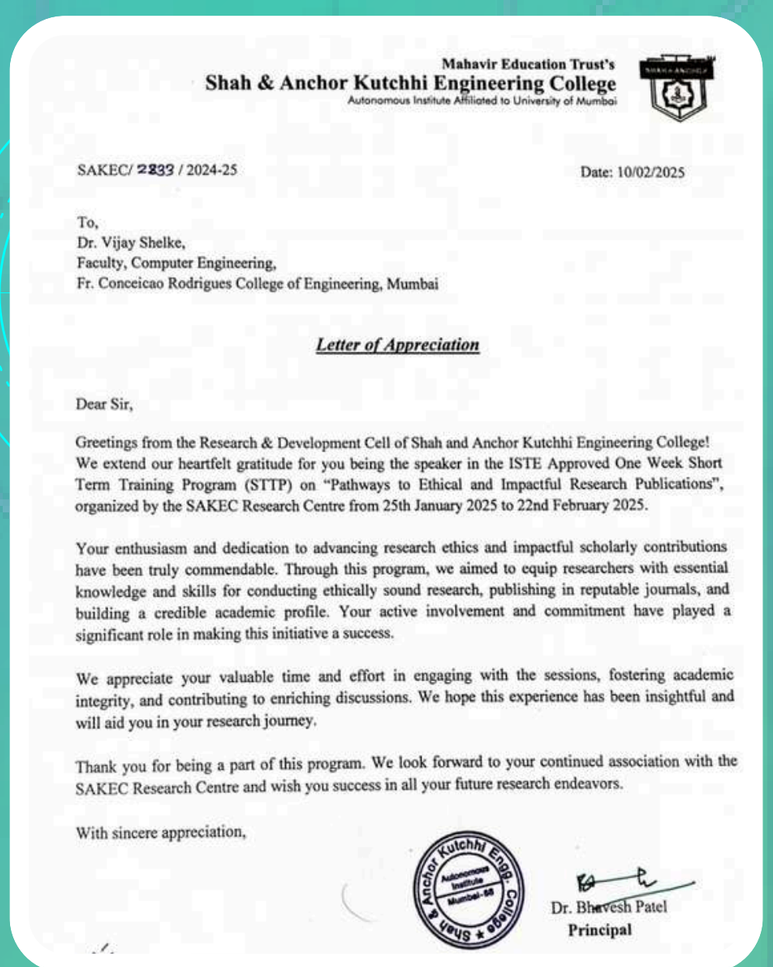
Dr. Ashok Kanthe has session chair and reviewed the papers of the 2nd International Conference on Advances in Technology and Management (ICATM-2024) which was held on April 5-6, 2024, organised by A. C. Patil College of Engineering Kharghar, Navi Mumbai India.

Dr. Smita Ambarkar delivered a session on “Cyber Security Horizons” at STTP, Shivajirao Jondhle College of Engineering, Dombivali on 11th January 2024

FACULTY INTERACTION WITH OUTSIDE WORLD



Prof. Sangeeta Parshionikar delivered a session on " System Design using FPGA" In ISTE approved STTP on Innovative trends in VLSI and Semiconductor Engg. , Jan 22, 2025



Mahavir Education Trust's
Shah & Anchor Kutchhi Engineering College
Autonomous Institute Affiliated to University of Mumbai

SAKEC/ 2233 / 2024-25 Date: 10/02/2025

To,
Dr. Vijay Shelke,
Faculty, Computer Engineering,
Fr. Conceicao Rodrigues College of Engineering, Mumbai

Letter of Appreciation

Dear Sir,

Greetings from the Research & Development Cell of Shah and Anchor Kutchhi Engineering College! We extend our heartfelt gratitude for you being the speaker in the ISTE Approved One Week Short Term Training Program (STTP) on "Pathways to Ethical and Impactful Research Publications", organized by the SAKEC Research Centre from 25th January 2025 to 22nd February 2025.

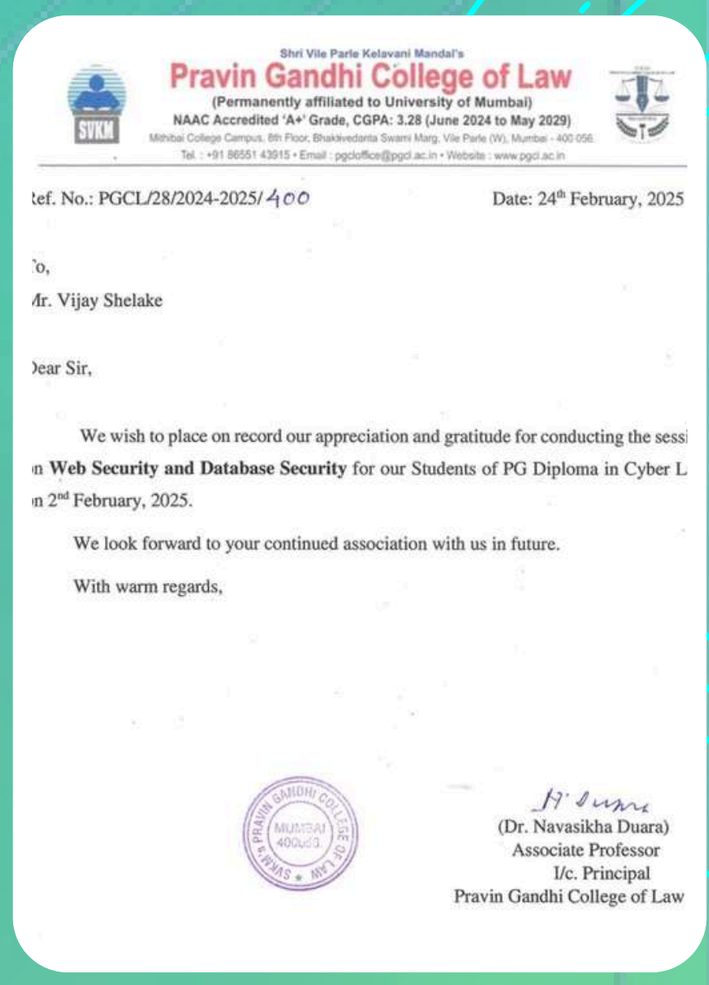
Your enthusiasm and dedication to advancing research ethics and impactful scholarly contributions have been truly commendable. Through this program, we aimed to equip researchers with essential knowledge and skills for conducting ethically sound research, publishing in reputable journals, and building a credible academic profile. Your active involvement and commitment have played a significant role in making this initiative a success.

We appreciate your valuable time and effort in engaging with the sessions, fostering academic integrity, and contributing to enriching discussions. We hope this experience has been insightful and will aid you in your research journey.

Thank you for being a part of this program. We look forward to your continued association with the SAKEC Research Centre and wish you success in all your future research endeavors.

With sincere appreciation,

Dr. Bhavesh Patel
Principal



Shri Vile Parle Kelavani Mandal's
Pravin Gandhi College of Law
(Permanently affiliated to University of Mumbai)
NAAC Accredited 'A+' Grade, CGPA: 3.28 (June 2024 to May 2029)
Mithibai College Campus, 8th Floor, Bhaktivedanta Swami Marg, Vile Parle (W), Mumbai - 400 056.
Tel. : +91 86551 43915 • Email : pgcloffice@pgcl.ac.in • Website : www.pgcl.ac.in

Ref. No.: PGCL/28/2024-2025/400 Date: 24th February, 2025

To,
Mr. Vijay Shelake

Dear Sir,

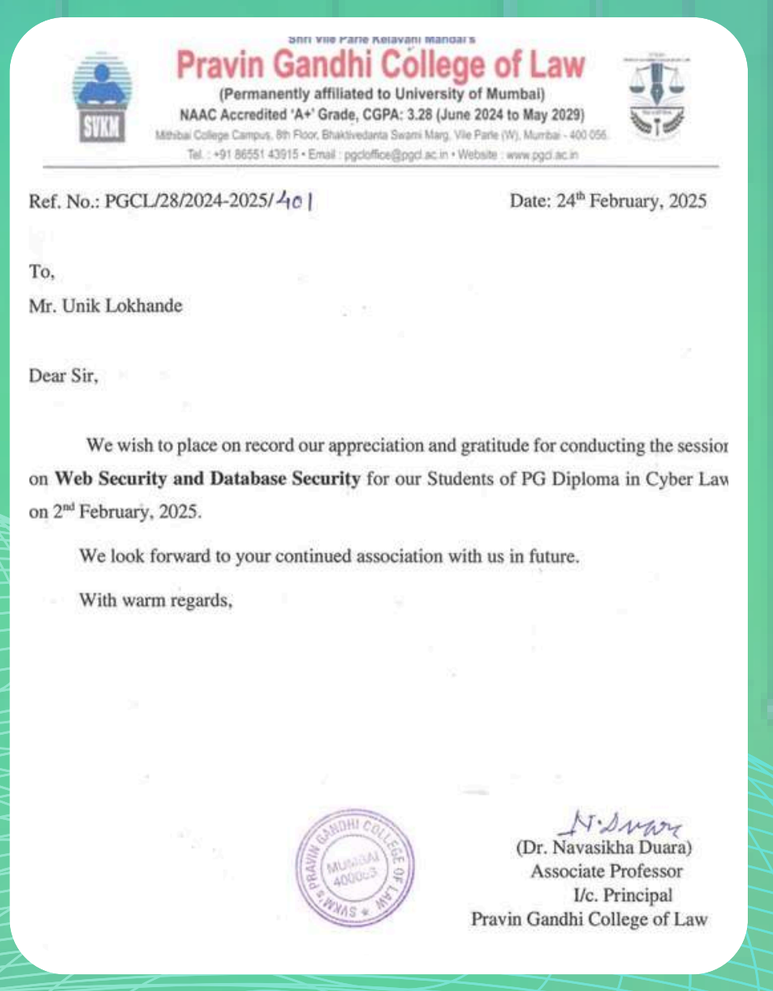
We wish to place on record our appreciation and gratitude for conducting the sessi
on **Web Security and Database Security** for our Students of PG Diploma in Cyber L
on 2nd February, 2025.

We look forward to your continued association with us in future.

With warm regards,

(Dr. Navasikha Duara)
Associate Professor
I/c. Principal
Pravin Gandhi College of Law

- **Dr. Vijay Shelke was a speaker in ISTE Approved STTP at Sakec on 25th Jan 2025**



Shri Vile Parle Kelavani Mandal's
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Tel. : +91 86551 43915 • Email : pgcloffice@pgcl.ac.in • Website : www.pgcl.ac.in

Ref. No.: PGCL/28/2024-2025/401 Date: 24th February, 2025

To,
Mr. Unik Lokhande

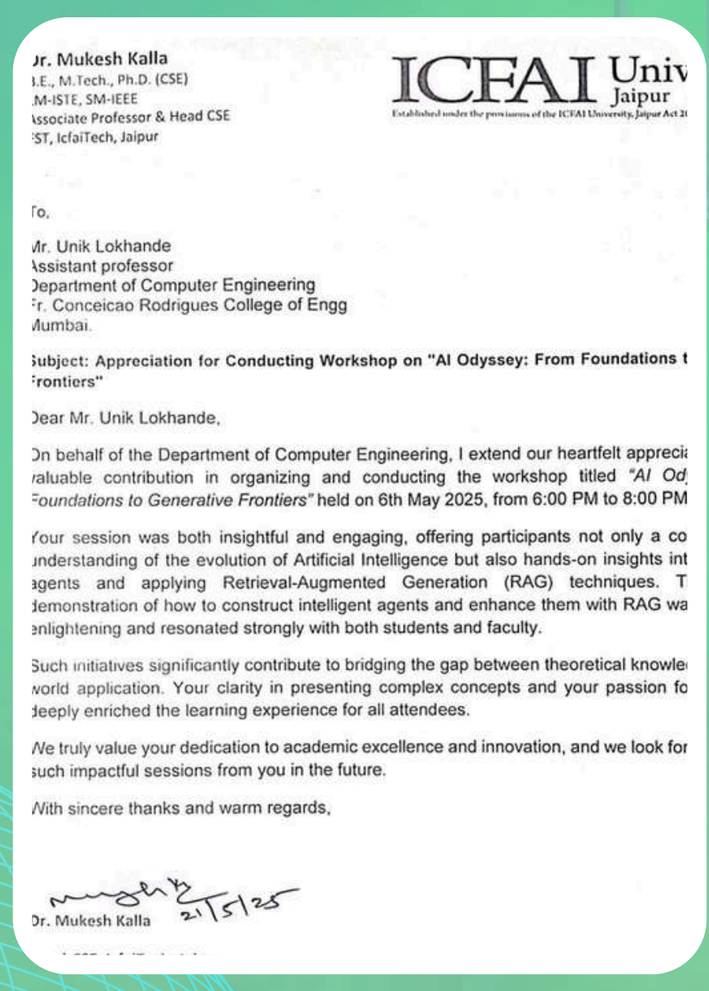
Dear Sir,

We wish to place on record our appreciation and gratitude for conducting the sessior on **Web Security and Database Security** for our Students of PG Diploma in Cyber Law on 2nd February, 2025.

We look forward to your continued association with us in future.

With warm regards,

(Dr. Navasikha Duara)
Associate Professor
I/c. Principal
Pravin Gandhi College of Law



Dr. Mukesh Kalla
B.E., M.Tech., Ph.D. (CSE)
FIM-ISTE, SM-IEEE
Associate Professor & Head CSE
ICFAI Univ Jaipur
Established under the provisions of the ICFAI University, Jaipur Act 2

To,
Mr. Unik Lokhande
Assistant professor
Department of Computer Engineering
Fr. Conceicao Rodrigues College of Engg
Mumbai.

Subject: Appreciation for Conducting Workshop on "AI Odyssey: From Foundations t Frontiers"

Dear Mr. Unik Lokhande,

On behalf of the Department of Computer Engineering, I extend our heartfelt appreci valuable contribution in organizing and conducting the workshop titled *"AI Od Foundations to Generative Frontiers"* held on 6th May 2025, from 6:00 PM to 8:00 PM

Your session was both insightful and engaging, offering participants not only a co understanding of the evolution of Artificial Intelligence but also hands-on insights int agents and applying Retrieval-Augmented Generation (RAG) techniques. T demonstration of how to construct intelligent agents and enhance them with RAG wa enlightening and resonated strongly with both students and faculty.

Such initiatives significantly contribute to bridging the gap between theoretical knowle world application. Your clarity in presenting complex concepts and your passion fo deeply enriched the learning experience for all attendees.

We truly value your dedication to academic excellence and innovation, and we look for such impactful sessions from you in the future.

With sincere thanks and warm regards,

Dr. Mukesh Kalla 21/5/25

- **Dr. Vijay Shelke conducted a session on web security for PG diploma students of Cyber Law on 2nd Feb 2025**

- **Mr. Unik Lokhande conducted a workshop at ICFAI University, Jaipur.**

- **Mr. Unik Lokhande conducted a session on web security for PG diploma students of Cyber Law on 2nd Feb 2025**

FACULTY INTERACTION WITH OUTSIDE WORLD

Dr. Sujata Deshmukh was the Auditor in the IT Department at FCRIT


WADHWANI FOUNDATION

Certified Entrepreneurship Educator

This certificate is awarded to

Monali Nitesh Shetty

ecognizing their achievement as a Certified Entrepreneurship Educator. This certification signifies high leve

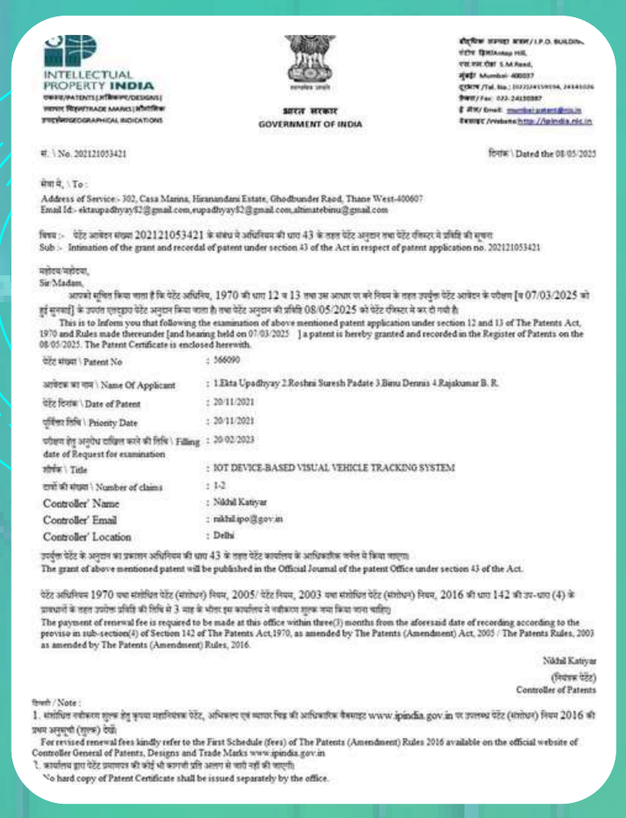
of proficiency in entrepreneurship education, with core ability to train, inspire, and motivate innovation and

entrepreneurship amongst students of higher education.

Date of Issue: 27-06-2025

Rajeev Warrier
Executive Vice President
Wadhwani Entrepreneur

Dr Monali Shetty awarded as a Certified Entrepreneurship Educator by Wadhwani foundation


INTELLECTUAL PROPERTY INDIA

GOVERNMENT OF INDIA

पेटेंट कार्यालय, बौद्धिक संपदा भवन / I.P.O. BUILDING, पोस्ट बॉक्स नं.Antop Hill, एस.एम.रोड S.M.Road, मुंबई Mumbai- 400037 दूरभाष /Tel. No.: 24159698, 24145026 फैक्स/Fax: 022-24103887 ई मेल/ Email: mumbai-patent@nic.in वेबसाइट /Website:http://ipindia.nic.in

सं. \ No. 202121053421 दिनांक \ Dated the 08/05/2025

सेवा में, \ To :
Address of Service:- 302, Casa Marina, Hiranandani Estate, Ghodbunder Raod, Thane West-400607
Email Id:- ektaupadhyay82@gmail.com,rupadhyay82@gmail.com,shrutebenu@gmail.com

विषय :- पेटेंट आवेदन संख्या 202121053421 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना
Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 202121053421

महोदय/महोदया,
Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व 07/03/2025 को हुई सुनवाई] के उपरांत एतद्द्वारा पेटेंट अनुदान किया जाता है तथा पेटेंट अनुदान की प्रविष्टि 08/05/2025 को पेटेंट रजिस्टर में कर दी गयी है.

This is to inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on 07/03/2025] a patent is hereby granted and recorded in the Register of Patents on the 08/05/2025. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	: 566090
आवेदक का नाम \ Name Of Applicant	: 1.Ekta Upadhyay 2.Roshni Suresh Padate 3.Binu Dennis 4.Rajakumar B. R.
पेटेंट दिनांक \ Date of Patent	: 20/11/2021
प्राथमिकता तिथि \ Priority Date	: 20/11/2021
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filing date of Request for examination	: 20/02/2023
शीर्षक \ Title	: IOT DEVICE-BASED VISUAL VEHICLE TRACKING SYSTEM
दावों की संख्या \ Number of claims	: 1-2
Controller' Name	: Nikhil Katiyar
Controller' Email	: nikhil.ipo@gov.in
Controller' Location	: Delhi

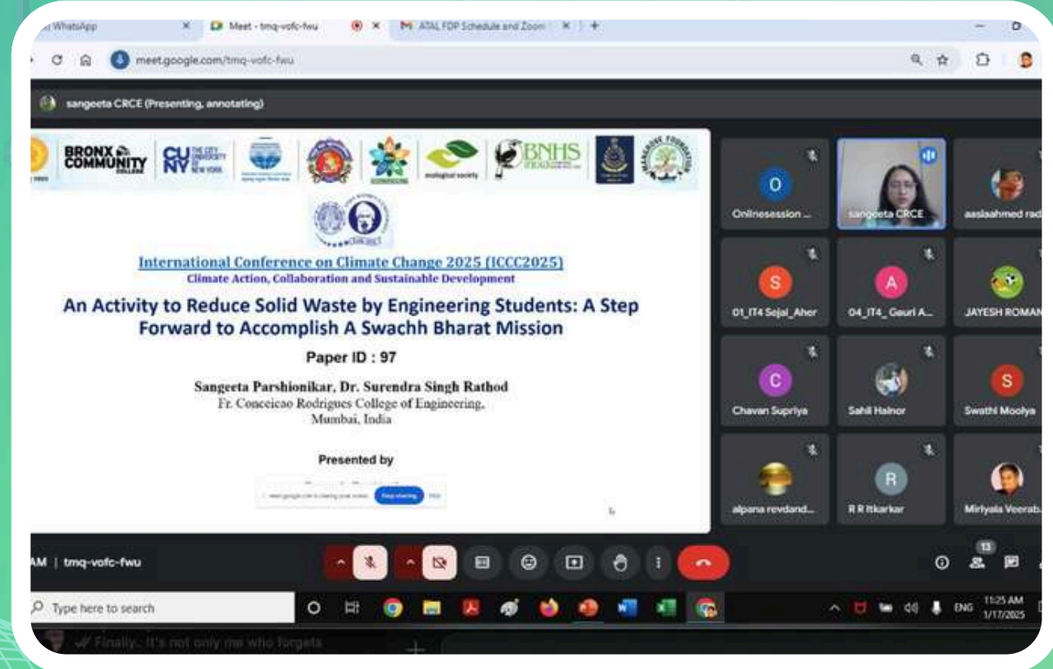
उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक पत्रक में किया जाएगा।
The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 तथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 तथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।
The payment of renewal fee is requred to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Nikhil Katiyar
(नियंत्रक पेटेंट)
Controller of Patents

टिप्पणी / Note :
1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वेबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।
For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in
2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।
No hard copy of Patent Certificate shall be issued separately by the office.

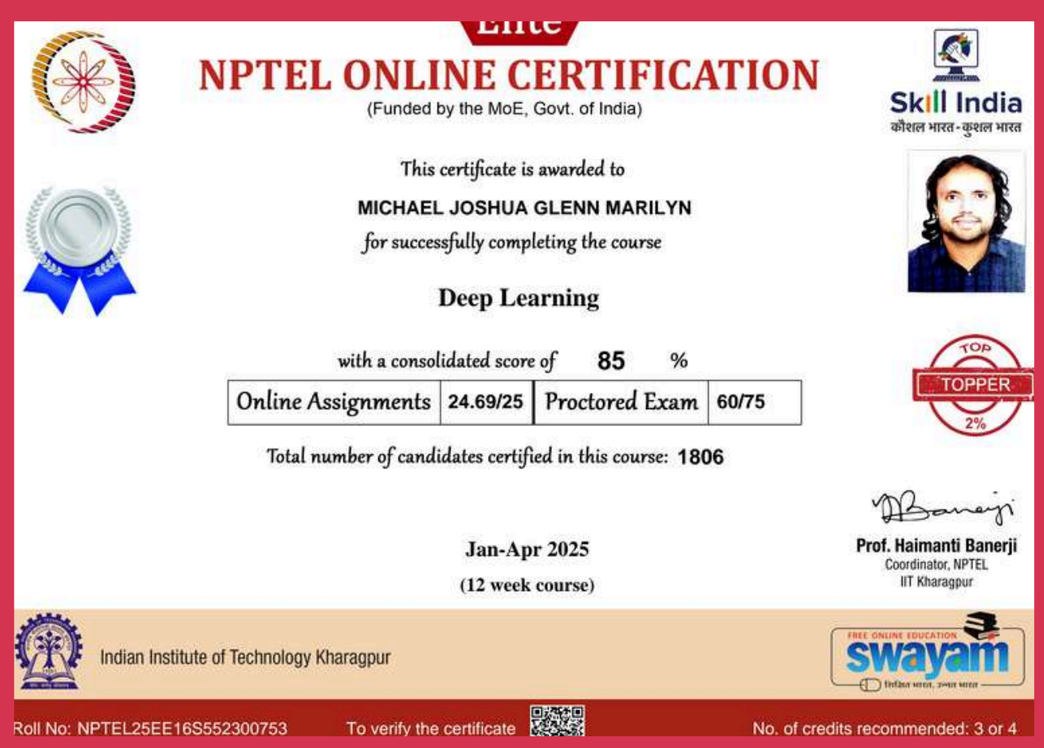
Dr. Roshni Padate received a grant for her Patent on IoT Device based Visual Vehicle Tracking System



Prof Sangeeta presented her work in International Conference on Climate Change

Prof Sangeeta was judge at Project Competition Prakalp 3.0, April 2025

FACULTY ACHIEVEMENTS



DEPARTMENT PUBLICATION

1.	Sujata Deshmukh , Fabian Baretto, Joshua Michael “Generative Artificial Intelligence with Emphasis on Large Language Models: Review and Current Trends”, Journal of Artificial Intelligence Research & Advances Volume : 12 Issue : 01 Year : 2025
2.	Roshni Padate, Ashutosh Gupta, Prasun Chakrabati, Arvind Sharma. Emotion Recognition from WhatsApp Text Messages using Unsupervised Machine Learning. Presented at the 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), Purwanchal Campus, Institute of Engineering, Tribhuvan University, Nepal, October 3–5, 2024.
3.	Anita Mhatre, Dr. Ashok Kanthe,“A Novel Framework For Adaptation in Dynamic Routing in Dynamic Network Using Advance Machine Learning and Deep Learning Techniques”, Panamericam Mathematical Journal, ISSN: 1064- 9735, Vol , No. , pp- Scopus Indexed Journal Q4-
4.	Roshni Padate ,Ashutosh Gupta, Prasun Chakrabati, Arvind Sharma, "An Enhanced Approach to Content-based Image Retrieval using Harris Hawks Optimization and Automated Image Captioning",at the 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) I-SMAC 2024 held at Purwanchal Campus, Institute of Engineering, Tribhuvan University, Nepal, from 3 to 5 October 2024.
5.	Pratush Prakash Urade, Dr. Ashok Kanthe,“Analyzing the Co-Existence Among Multiple Access Techniques in Wireless Networks”, Panamericam Mathematical Journal, ISSN: 1064- 9735, Vol 35, No. 3s(2025). , pp. Scopus Indexed Journal Q4 https://internationalpubls.com/index.php/pmj/article/view/4285
6.	Dr. Ashok Kanthe, Dr. Vijay Shelake, Ankita Amburle, “Guardian Sheild- safeguarding patient data integrity in healthcare systems”, Journal of Mobile Multimedia (shortlisted for special edition) Presented in 27th International Symposium on Wireless Personal Multimedia Communications (WPMC2024), IEEE Conference, “Secure 6G – AI Nexus: Where Technology Meets Humanity” 17-20 November 2024 Sharda University, Greater Noida (NCR- Delhi), India- presented and submitted for scopus journal publication (Journal of Mobile Multimedia).
7.	Dr. Ashok Kanthe, Dr. Ninad More, Dr. Puja Padiya, Dr. Nilesh Marathe, Prof. Pratap Nair, Dr. Hasib Shaikh, “A New Design Framework for Public Health-Ration Distribution by using Block chain Technology in India”. SEEJPH Volume XXV, S2, 2024, ISSN: 2197-5248; Posted:05-12-2024
8.	Dr. Ninad More, Dr. Ashok Kanthe, Dr. Jyoti Gangane, Dr. Puja Padiya, Dr. Sumitra T.V., “Complete Study of Remote Sensing- Sentinel-2 Data for Land Use / Land Cover (LULC) Analysis”, Panamericam Mathematical Journal, ISSN: 1064-9735, Vol 34, No. 4, pp-416-433 Scopus Indexed Journal Q4
9.	Dr. Ninad More, Dr. Ashok Kanthe, Dr. Jyoti Gangane, Dr. Puja Padiya, Dr.Sumitra T.V., “Automatic Urban Change Detection using LANDSAT-8 SatelliteImages and Deep Learning Techniques in Australian Capital Territory (ACT), Australia”, Communication on Applied Nonlinear Analysis, Vol. 32, No. 3 s(2025). Scopus Indexed Journal
10.	Dr. Vijay Maruti Shelake, Dr. Sujata Deshmukh, Mr. Siddhant Jadhav, Mr. Aliasgar Lakdawala, Mr. Alok Mistry, Mr. Sahil Vichare, QR CODE DINING DELIGHT, Industrial Engineering Journal, Volume: 53, Issue 7 No. 2, page no.:14-20, July: 2024.

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DEPARTMENT PUBLICATION

11.	Pankaj Chandare, Jagnaath Nalawade, Ashok Kanthe, Jyoti Yogesh Deshmukh, Bhagyashree Shendkar, Parikshit Mahalle, “Industry 5.0 for Society 5.0 A new transformation”, Panamericam Mathematical Journal, ISSN: 1064-9735, Scopus Indexed Journal Q4-submitted
12.	Sangeeta Parshionikar, Aarush Verulkar, Ashay Katkar, Intellihealth- A secured decentralized Electronic health record system using blockchain, at 3rd IEEE International Conference on Blockchain and Distributed Systems security 2024, October 17-19th-2024 at VIIT Pune, Maharashtra.
13.	Sangeeta Parshionika, Madhav Jha, EcoCredits: A platform to support Sustainable farming through carbon credits Trading scheme at International Conference on climate change- Accepted
14.	Sangeeta Parshionikar,Rudalph Gonsalves, Shruti Patil, Siddhesh Pradhan, Medisense: An Advanced Health Tech application Using Generative AI, 2nd IEEE International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Applications, Nagpur 2024
15.	Sushma Nagdeote and Sapna Prabhu, "Enhanced U-Net Framework for Nuclei Segmentation in Triple Negative Breast Cancer," 2024 Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI), Coimbatore, India, 2024, pp. 1321-1326, doi: 10.1109/ICoICI62503.2024.10696356
16.	Tanuj Kumbhar , Eden Evelyn Charles , Dr. Sujata Deshmukh, Cloudpital: A disease prediction app , International Journal for Research in Engineering Applications and Management (IJREAM),Vol 10,issue 09,2024
17.	Sujata Sahul Chiwande, P. Nipane, H. Bakre, P. Raut, P. Badole and Sushma Nagdeote, "Design and Implementation of Efficient Public Transport System Using Raspberry Pi," 2024 Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI), Coimbatore, India, 2024, pp. 533-537, doi: 10.1109/ICoICI62503.2024.10696348
18.	Sushma Nagdeote, Sapna Prabhu, Jayashri Chaudhari, Enhanced Computer-Aided Digital Imaging Technique for Predictions in Breast Cancer, Recent Advances in Electrical & Electronic Engineering; Volume 18, Issue 3, Year 2024, e23520965282930. DOI: 10.2174/0123520965282930240417113057
19.	Sushma Nagdeote, Jonathan Dabre, Zane Falco, Sujata Chiwande, “Energy Consumption Calculator with Prediction of Peak Demand and Per Capita Electricity Consumption using Linear Regression” Accepted for publication
20.	Sujata Sahul Chiwande, P. Nipane, H. Bakre, P. Raut, P. Badole and Sushma Nagdeote, "Design and Implementation of Efficient Public Transport System Using Raspberry Pi," 2024 Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI), Coimbatore, India, 2024, pp. 533-537, doi: 10.1109/ICoICI62503.2024.10696348

DEPARTMENT PUBLICATION

21.	Thomas Merly, Meshram BB, Optimizing hyperparameters for enhanced email classification and forensic analysis with stacked autoencoders, International Journal of Network Security and Its Applications, Vol 16, Issue 1, Pages 21-33 doi: 0.5121/ijnsa.2024.16102
22.	Thomas Merly. and B.B., M. (2024), "DoS attack detection using Aquila deer hunting optimization enabled deep belief network", International Journal of Web Information Systems, Vol. 20 No. 1, pp. 66-87. https://doi.org/10.1108/IJWIS-06-2023-0089
23.	Ankita Amburle; Vijay Shelake; Ashok Kanthe; Aditi Malkar,"Aspect Based Call Analysis of Marathi Regional Language in India Using Machine Learning Approach", Published in 2024 International Conference on Innovation and Novelty in Engineering and Technology (INNOVA),DOI: 10.1109/INNOVA63080.2024.10847022
24.	Kashish Sharma; Ankita Amburle; Vijay Shelake; Ashvini Ashok Chauhan,"Development of an AI based Priority Formation Mechanism in Criminal Law",Published in2024 3rd International Conference on Automation, Computing and Renewable Systems (ICACRS).DOI: 10.1109/ICACRS62842.2024.10841680
25.	Padate, R., Gupta, A., Kalla, M., & Sharma, A. (2025). Image caption generation via improved vision-language pre-training model: perception towards image retrieval. The Imaging Science Journal, 1–27. https://doi.org/10.1080/13682199.2025.2461959
26.	A Comprehensive System for Sustainable Tree Plantation and Growth Monitoring using Blockchain, AI, and IoT", International Journal of intelligent SYSTEMS AND APPLICATIONS IN ENGINEERING, ISSN:2147-6799, IJISAE, 2024, 12(21s), 955–961, Scopus
27.	Susan Fernandes, , Iqra Khan, Monali Shetty, Prachi Patil, "TechLib: Plagiarism Free Project Management", ASIT 2024
28.	Sequeira, S., Chaughule, C., Castelino, A., DCruz, J., Wagle, K., & Pansare, A. (2024, October). SmartBin+: Elevating Responsible Waste Disposal with Rewards. In 2024 4th International Conference on Sustainable Expert Systems (ICSES) (pp. 296-304). IEEE.
29.	Swati Sanap, Vijay Shelake, Health-HIDE: Design and Development of Hashing Identity based Data Encryption on Electronics Healthcare Records, International Journal for Research in Engineering Application & Management. Vol-10, Issue-02, pp. 93-98, 2024. DOI: https://ijream.org/papers/IJREAMV10I02110035.pdf.
30.	Dr. Vijay Maruti Shelake, Dr. Sujata Deshmukh, Mr. Siddhant Jadhav, Mr. Aliasgar Lakdawala, Mr. Alok Mistry, Mr. Sahil Vichare, QR CODE DINING DELIGHT, Industrial Engineering Journal, Volume: 53, Issue 7 No. 2, page no.:14-20, July: 2024.

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DEPARTMENT PUBLICATION

31.	Sandeep Partole. Vijay Shelake. Health CNN-SMO: To Secure and Enhance the Medical Healthcare System by using Convolution Neural Network, International Journal of Innovative Science and Research Technology, Volume. 9 Issue.4, pp. 2583-2586, 2024. DOI: https://doi.org/10.38124/ijisrt/IJISRT24APR1123.
32.	Vijay Shelake, Rama Gaikwad, Rashmi Dixit, Tushar Phadtare, Mohsin N Mulla, Sagar Ramesh Rane, Blockchain and AI in Digital Contracts: A Legal Review of Smart Contract Enforcement, Journal of Information Systems Engineering and Management, Vol. 10 No. 23s, pp. 166-170, 2025. DOI: https://doi.org/10.52783/jisem.v10i23s.3689.
33.	Vijay Shelake , Suzan Dsouza, Shagun Agrawal, Martina John, Sujata Deshmukh,Enhancing Donor Eligibility Criteria using Machine Learning to Maximize Blood Donation Efficiency, Journal of Information Systems Engineering and Management, Vol. 10 No. 27s, pp. 280-284,2025. DOI: https://doi.org/10.52783/jisem.v10i27s.4406
34.	Vijay Shelake, Sujata Deshmukh, Max Gonsalves, Vedant Chawardol, Saville Dsilva, Ivan Dsouza, SpeakEasy: A Tool for People with Communication Disabilities, International Journal of Engineering Trends and Technology, vol. 73, no. 3, pp. 13-21, 2025. Crossref, DOI:https://doi.org/10.14445/22315381/IJETT-V73I3P102.
35.	Supriya Kamoji, Shwen Coutinho, AdwaitChavan, Mrugank Worlikar,Geospatial Analysis of solar energy potentials for rooftops, International Conference on futuristic aspects in science and Engineering 06-07 February 2025, Jaipur
36.	Dr. Supriya Kamoji, Sanika Patankar , Sanika Rozario ,Sania Almeida, CareerCreaft: AI-Powered Resume Enhancer, 6th World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2025), May 18 2025
37.	Supriya Kamoji, Mukesh Kalla, Analysis of flood severity using intelligent deep networks and sentinel image for the Kerala region International Journal of Hydrology Science and Technology 19.1 (2025): 1-23.
38.	Gaurav Mishra, Jagruti Nagaonkar, Harsh Parmar, Gaurav Joshi,"Efficient Classification of Pomegranate DiseasesUsing Deep Learning Models and Interactive Visualization",ICETSF-2025 held at R.R. Pote college of Engineering and Management,Amravati,Maharashtra on 17-18 may 2025 (https://doi.org/10.1051/epjconf/202532801051)

GUEST LECTURES ORGANIZED BY THE DEPARTMENT

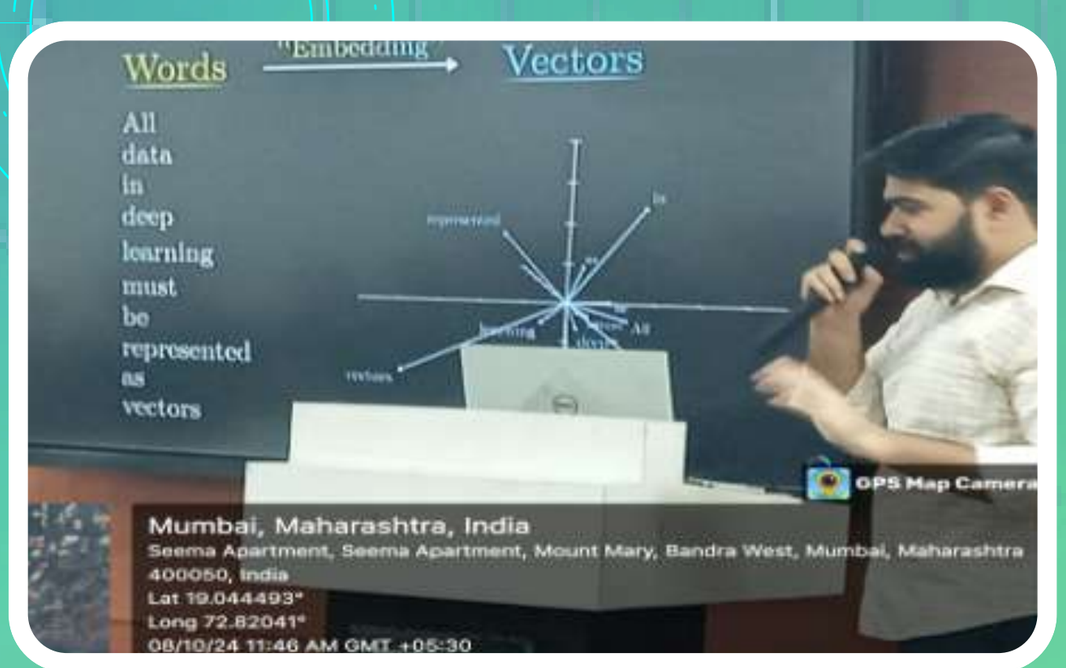
Sr. No	Topic covered	Date	Resource Person with designation	% of students attended	PO MAPPING
1.	Introduction to Backend Frameworks	05/12/2024	Zane Fernandes, TE A Student	89.06%	PO5
2.	Convergence of Blockchain and AI	06/08/2024	Praveen Bhandari, Founding Team Member and AI/ML Engineer , Lawyantra	96%	PO2
3.	Bridging the gap between academic learning & real world applications, career opportunities in software engineering	05/11/2024	Mr. Mugesh Nadar , Technical Project Manager at Nuveen TIAA	92%	PO3
4.	Cracking the code, Mastering Graphs and Graph algorithms and Introduction to Competitive Coding	06/11/2024	Mr.Amurto Basu , SWE-III @Google	90%	PO2
5.	POWER BI	14/08/2024	Mr.Rahul Bothra (Alumni)	90%	PO5
6.	Master Data Visualization with Looker Studio	21/09/2024	Kunj Bhatt, Data Analyst at Drilldown CIO	85%	PO5
7.	Hands-on Session on React Fundamentals	23/10/2024	Mr. Krish Manglorkar, Full-stack Engineer @ Accenture. Alumni, Computer Dept, Batch 2021	100%	PO5
8.	MLOps: Continuous delivery and automation pipelines in machine learning	06/09/2024	Mr. Warren Fernandes, Ex-student BE COMP A	100%	PO4
9.	Large Language Model	14/08/2024	Mr. Aneesh Alapattu, Senior Data Scientist, GEP	100%	PO5
10.	Data Science	13/01/2025	Ms. Usha Nalla, Melbourne University, Australia	50%	PO5
11.	LinkedIn for Engineers: Build your professional brand	07/02/2025	Ms. Mareena Fernandes, Associate, Morgan Stanley	10%	PO8
12.	A Human-Centered Approach to Product Development & Lessons from the field	06/02/2025	Dr. Melroy D'Souza Principal UX Director, UX Studio WWL, Microsoft, USA	90%	PO8
13.	Microservices	08-04-2025	Mr. Abhishek Ahirrao Senior Data-Platform Engineer, Quantiphi	80%	PO5

GUEST LECTURES ORGANIZED BY THE DEPARTMENT

Glimpses of Guest lectures Conducted

Cracking the code, Mastering Graphs and Graph algorithms and Introduction to Competitive Coding

Bridging the Gap Between Academic Learning & Real-World Applications, Career Opportunities in Software Engineering



Large Language Model

A Human-Centered Approach to Product Development & Lessons from the field

ARTICLES

Angela Sebastian Dsouza
BE Comps B

“The Death of the Click: How AI is Rewriting the Rules of SEO”

Let’s Be Honest...
When was the last time you searched something on Google and actually clicked a link?

Chances are, you just read the AI-generated snippet or asked Gemini or ChatGPT and got the answer right there. Fast. Clean. No annoying cookie pop-ups. That’s because AI isn’t just searching websites - it’s reading, summarizing, and presenting content from them without sending you there. Sites still write the content, but the credit and traffic gets eaten by the AI interface.

This trend is part of what’s known as a zero-click search where users get their answers directly from the search engine without clicking on any links. In fact, a study by Semrush (2022) found that over 57% of mobile searches and 25% of desktop searches end without a single click, signaling a major shift in how users consume information.

But while this feels great as a user, it’s a growing nightmare for content creators and website owners. The internet is being reshaped, and SEO - the technique behind every Google search result is scrambling to keep up.
Search Engine Optimization (SEO) is the art of making content more visible on search engines. To capture user attention and rank higher in search results, websites employ several strategies including using relevant keywords strategically, creating helpful and informative blog posts, optimizing page load speeds and earning backlinks from trusted and authoritative sources.
If you are ranked high, people click. And with clicks came ad revenue, leads, sales, or simply recognition. But now the incentive model has changed. If users don’t click, web creators don’t get traffic. And without traffic, content monetization suffers.

AI IS TAKING UP ANOTHER JOB!? NOT REALLY
SEO isn’t getting fired; it’s being forced to work smarter under a new AI-powered boss.

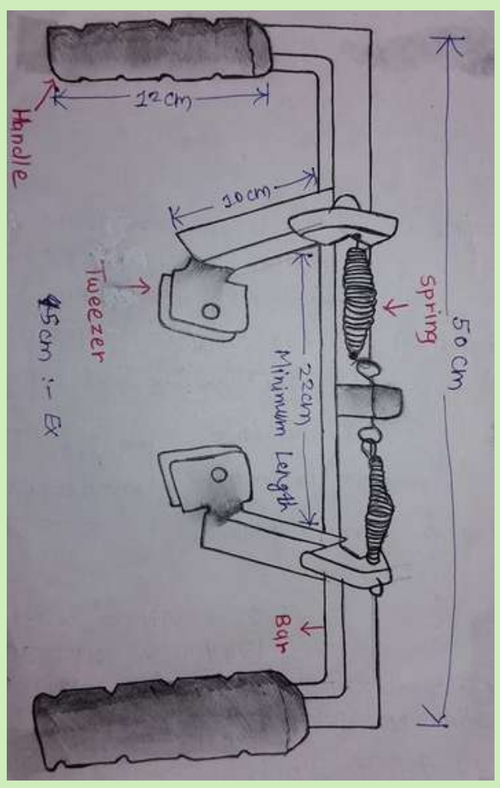
Content now needs to be “AI-readable” which means it must be structured, factual, and concise to increase the chances of being picked up and summarized by AI models. Technical elements like schema markup have become increasingly important, as they help search engines and AI tools better understand and categorize web content. At the same time, Google’s E-E-A-T framework—Experience, Expertise, Authoritativeness, and Trustworthiness has become a core principle for building content that ranks well and is considered reliable by AI models.

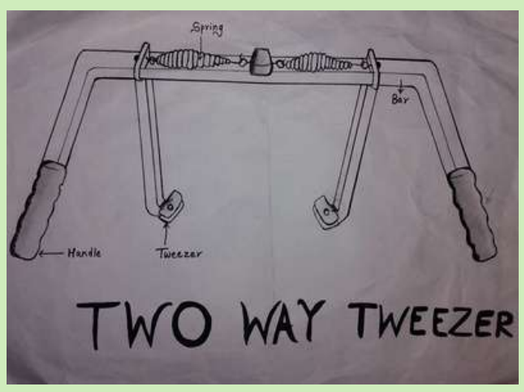
We’ve moved from a “search and click” model to the one centered on “ask and receive.”
It’s no longer just about reaching Page 1; it’s about staying structured and clear enough for AI to pick you up from Page 1. That leaves us asking: How do you stay visible on an internet where people never leave the search box?
The answer? Create content not just for people but for the AIs that talk to them.
Because whether we like it or not, AI is the new homepage.

ARTICLES

Shreyas Mangesh Mahajan
SE Comps

From School Innovation to National Recognition: The "Two-Way Tweezer" Journey





Innovation often sparks from everyday challenges. For me, the inspiration behind my "Two-Way Tweezer" project, which earned me recognition at the national level in the Inspire Award competition, arose directly from a common household scenario while I was still in school: assisting my mother in the kitchen.

One day, while attempting to lift a hot and heavy pot from the fire with a normal pair of tongs, it slipped from the grip of that normal tweezer. Thankfully, I narrowly avoided a burn. This incident, though minor, ignited an idea: there had to be a safer, more efficient way to handle heavy and hot cookware.

This led to the development of the "Two-Way Tweezer". My project focused on modifying a traditional lifting tool to enhance its safety and utility. The key innovation lies in the design of the tweezer's ends, which are crafted in a curving manner. This design ensures a secure grip, preventing heavy and hot pots from slipping out from the grip of the two-way tweezer.

The "Two-Way Tweezer" offers significant advantages, particularly for those who frequently handle large pots, such as caterers. Currently, caterers often resort to using waste clothes for lifting heavy pots from the fire. My invention eliminates the need for such unhygienic practices, providing a cleaner and safer alternative as caterers can get rid of dirty clothes. Furthermore, the design allows caterers to easily move heavy pot from one place to another.

The tweezer is designed to accommodate a range of pot sizes. It can easily grip pots with diameters between 25 cm and 40 cm. The length of the two-way tweezer can also be increased or decreased to easily grip maximum or minimum diameter pots. To use it, both ends of the tweezer are attached to the circumference of the heavy and hot pot by adjusting the grip. The pot can then be lifted and carried comfortably to another place using both sides of the handles. Finally, the pot can be released by stretching the spring.

My journey with the "Two-Way Tweezer" began with success at the Taluka and District levels, progressing to the State level, and ultimately culminating in national recognition at the prestigious Inspire Award competition. This rigorous process included practice sessions in Gandhinagar, Gujarat, before the national finale in Delhi, where students from across different states showcased their innovations. While I reached the national stage, my project did not proceed to the international level. Nevertheless, this extensive journey, from a simple kitchen observation in school to such a significant platform, stands as a testament to its potential impact and underscores the power of applying engineering principles to solve real-world problems. I believe this "Two-Way Tweezer" will be more useful and beneficial in the kitchen. This project has not yet been discovered.

As I complete my first year and move into my second year of engineering at FR. CRCE, I am eager to continue exploring and developing practical solutions through innovative design.

INDUSTRIAL VISIT

Title: Industrial Visit to Adani Dahanu Thermal Power Station

Date of Visit: 15/01/2025
Location: Dahanu, Maharashtra
Technology Used: Coal-based thermal power generation with advanced pollution control mechanisms.

OBJECTIVE:

- *To gain insights into the operation of a thermal power station, understand the processes involved in power generation, and explore the environmental and sustainability measures implemented by the plant.*
- *To enhance the Thermal Power Plant with the help of AI and ML.*

Faculty Incharge: *Dr Monali Shetty, Dr. Monika khanore, Prof Kranti Wagle, Dr. Vijay Shelak*

PARENT TEACHER INTERACTION

On March 26th, 2024 for TE and on April 5th for FE and SE, a Parent-Teacher Meeting for the Computer Engineering students at Fr. Conceicao Rodrigues College of Engineering was warmly welcomed by Dr. Monica Khanore, in the presence of the Head of Department Dr. Sujata Deshmukh.

DEGREE CERTIFICATE DISTRIBUTION CEREMONY

Degree Certificate Distribution Ceremony Class Of 2024 Fr. CRCE, Bandra, Mumbai.

Graduation is the most awaited and glorious occasion in the life of a student pursuing their dream through four rigorous but illuminating years. Students gathered together to celebrate and witness the grand event of the Degree Certificate Distribution Ceremony of the class of 2024, held in BasketBall Ground, FRCRCE, Bandra on the 8th March 2025 at 6 pm.

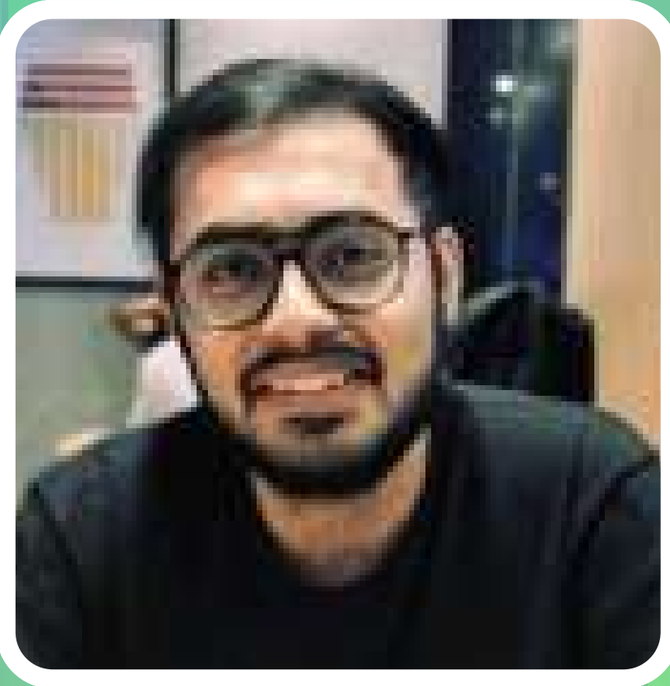
The event commenced with our honourable dignitaries Dr. Bernard Menezes , Director-Rev Fr. Valerian D'souza , Assistant Director-Rev Fr Trevor Pereira, Principal Dr. Surendra Rathod, head of the departments along with students' representatives marched their way into the auditorium, followed by the lighting of the lamp - a symbol of enlightenment. Dr. Vinod M Mohitkar, IIT Bombay graced the occasion with his presence as the Chief Guest. The Chief Guest's address was insightful and one that inspired hope, optimism and pride in all students on active involvement of Indian Scientists and Engineers in International Research. More than two hundred students were awarded their Graduation Certificates by the Chief Guest, Director-Rev Fr Valerian D'souza , Assistant Director-Rev Fr Trevor Pereira, D'Souza, Rev, Principal Dr. Surendra Rathod and the Heads of the Departments.

UNIVERSITIES FOR HIGHER STUDIES

Higher studies

Sajkiran Kasturi
MS (AI& DS) student at
IIT BOMBAY
AIR-922-GATE CSE-2024

Pranay Bagrecha
Post Graduate Programme
student at Indian School of
Business (ISB)



Ayush Batra
MS Student at University of
Stuttgart
Stuttgart, Baden-
WürttembergGermany

PLACEMENTS & HIGHER STUDIES STATISTICS

	2024 -25	2023 -24	2022 -23
Total No. of Students.	134	141	142
No. of Eligible and Registered students	99	97	106
No. of Students Opting for Higher studies	33	42	29
No. of Students placed	82	90	95
Placement percentage	85.82	90.28	88.57
No. of students opting for other career options	02	01	0

PLACEMENTS – 2024-25

INTERNSHIP HIGHLIGHTS 2024-25

Companies Offering Internships :

accenture, adani Electricity, Arcon, IDFC FIRST Bank, इंडियनऑयल, BNP PARIBAS, Morgan Stanley, General Mills, UBS, IndianOil, TATA CONSULTANCY SERVICES, HDFC BANK, Reliance RETAIL, ZYCUS COGNITIVE PROCUREMENT, STULZ, SECLORE, WISSEN

Highlights :

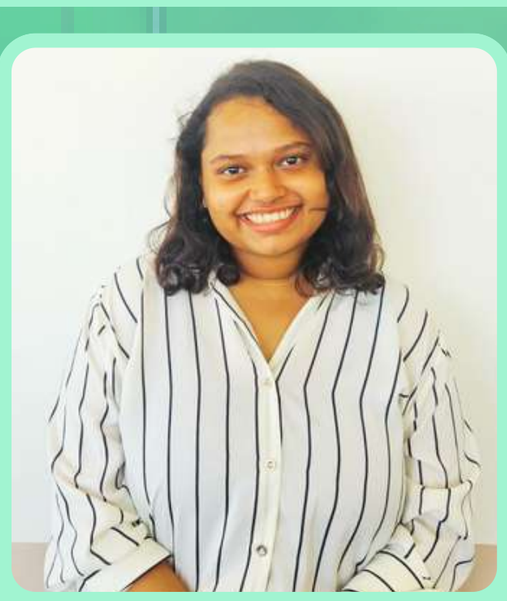
Seema Dashrath Yadav
Morgan Stanley
6 months
Stipend :87000

Gokul Krishnaa Menon
BNP Paribas
6months
Stipend: 50000

Simona Rumao
Wizzer Advisor
4 months
Stipend: 25000

Madhav Jha
Wissen Technology
6 months
Stipend: 25000

Sanat Patil
Wissen Technology
6 months
Stipend: 25000



Pearl Dsouza
Colgate Global
6 months
Stipend: 25000

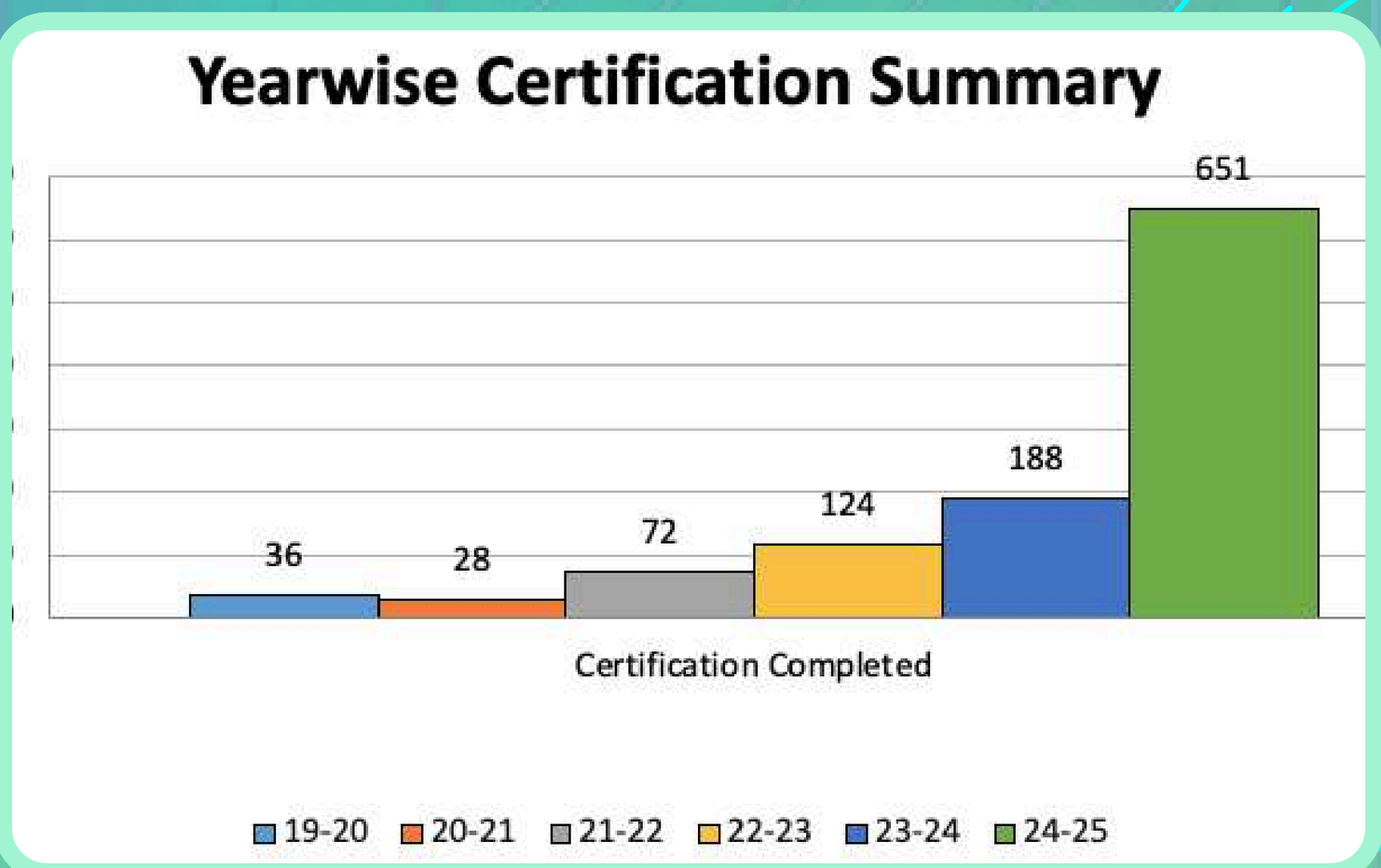
Marlon Mario Valladares
Zycus
6 months
Stipend: 27500

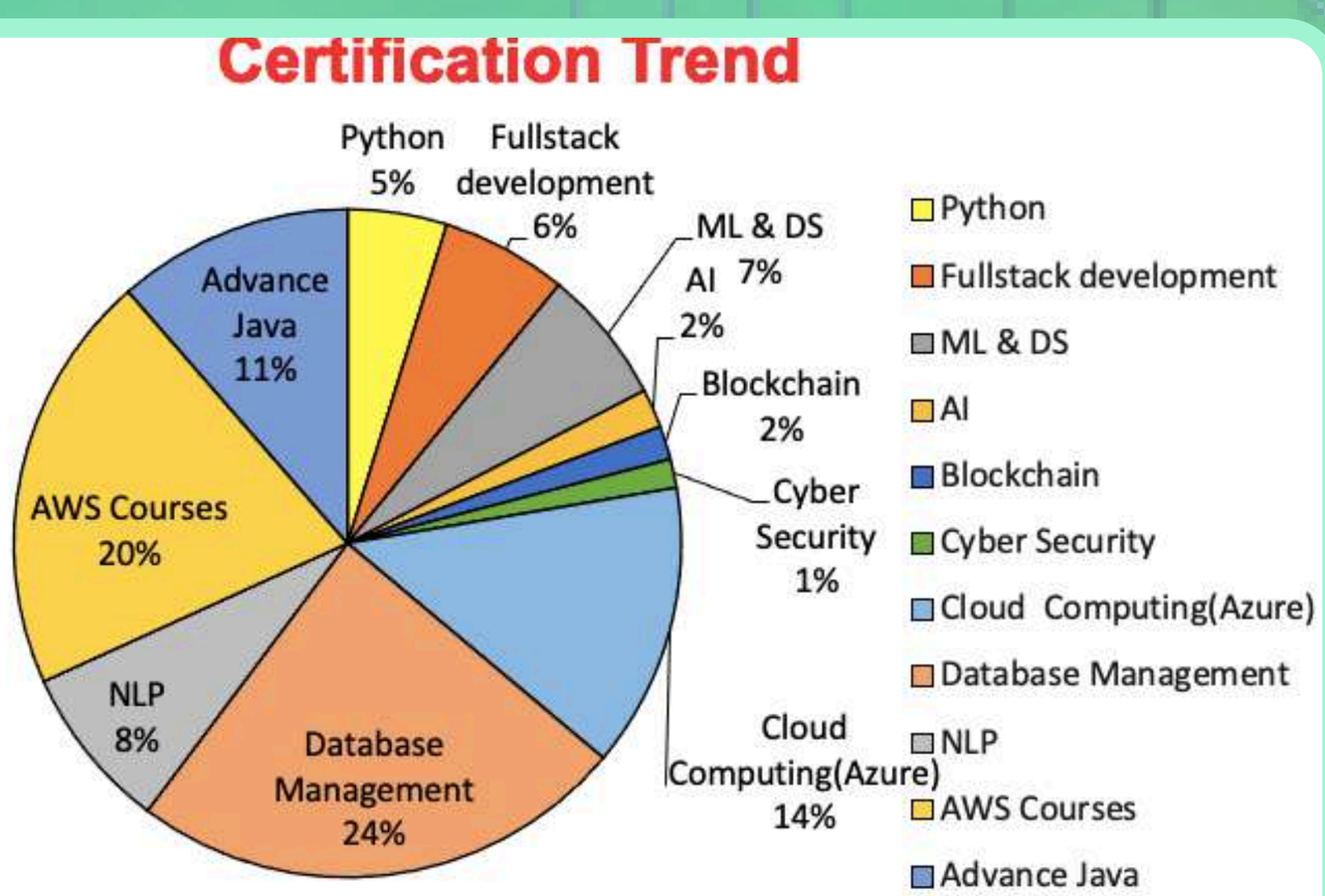
Slayde Sequeira
Hyperverge
5.5 months
Stipend: 35000

CERTIFICATIONS DONE BY STUDENTS - ANALYSIS

Year wise summary of certification, Internship & Placements

Year	19-20	20-21	21-22	22-23	23-24	24-25
Certification Completed	36	28	72	124	188	651
Internship	64	91	88	109	65	162
Placements	42	56	48	113	90	77





COMPUTER DEPARTMENT

Learn with passion, earn with purpose, return with pride —
that's the code every responsible engineer should live by.

THANK YOU

Of

For your Continuous Support and Encouragement

The Computer Engineering Department

Fr. Conceicao Rodrigues College of Engineering

Is Grateful for your Unwavering Dedication to Our Community.