

### BANSILAL RAMNATH AGARWAL CHARITABLE TRUST'S

### VISHWAKARMA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY



Student Internships, Toppers

Student Club Activities, Student Achievements

Workshops/ Seminars MOU's with Industries



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# **Institute Vision**

To be globally acclaimed Institute in Technical Education and Research for holistic Socio-economic development.

# **Institute Mission**

- To ensure that 100% students are employable and employed in Industry, Higher Studies, become Entrepreneurs, Civil / Defense Services / Govt. Jobs and other areas like Sports and Theatre
- To strengthen Academic Practices in terms of Curriculum, Pedagogy, Assessment and Faculty Competence
- Promote Research Culture among Students and Faculty through Projects and Consultancy
- To make students Socially Responsible Citizen

# **Department Vision**

To provide student-centered state-of-the-art academically enriched environment for productive careers in the world of computing through creativity and innovation.

# **Department Mission**

- To promote aspiring ethically conscious engineers demonstrating sustainable employability and entrepreneurship
- To impart quality education with the focus on analytical and problem-solving skill development
- To foster inspired scholarly environment through active student-faculty participation in research and development resulting in new base or insights
- To prepare students to shoulder social responsibilities by application of their skill set for betterment of society.

# From the HOD's Desk



"We are confident enough that our Engineers will emerge as assets not only to this institution and to the organization, but also to the country at an extent. Along with academic knowledge we also train our Engineers to face the challenges in life by providing many value added courses to enhance their career prospects. The excellent infrastructure, teaching faculty of the best kind ensuring quality education such as interaction among students, parents and staff, along with Training & Placement Cell ensuring a bright future to our students."

- Prof. Dr. Premanand Ghadekar (HOD)



# Student Club Activities



# Computer Society of India



Date: 5th August 2024

Event: MLOps Unleashed: Bridging Machine Learning and DevOps

# Summary

On August 5th, MLOps Unleashed featured Mr. Bhushan Garware, an Al Consultant at Google, who provided insights into MLOps and real-world ML deployment. The session covered key topics like Docker, Kubernetes, pipeline orchestration, and model monitoring. Students gained industry-relevant knowledge, bridging the gap between academia and professional practices. The event offered a holistic view of MLOps, highlighting challenges in maintaining ML models at scale. Cutting-edge tools like Kubeflow were introduced, laying a foundation for further learning in ML operations.



# Computer Society of India



Date: 20th August 2024

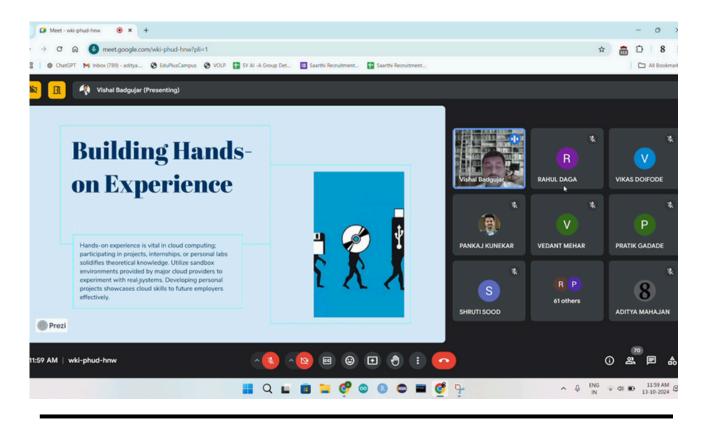
Event: Git & GitHub Workshop

# **Summary**

On August 20th, the CSI team at VIT Pune hosted a hands-on workshop on Git & GitHub, led by Pratham Gadkari, the Technical Head of CSI. The session covered essential topics like creating repositories, making commits, branching, and syncing projects. Participants practiced key Git commands, learned the importance of version control, and explored ways to enhance their GitHub profiles. A demonstration of GitHub Desktop provided insights into visual project management. The workshop aimed to equip students with practical skills for effective repository management.



# **Computer Society of India**



Date: 13th October 2024

**Event: Cloud Security and Opportunities in Cloud Computing** 

# **Summary**

The CSI team at VIT Pune organized an online session on Cloud Security & Career Opportunities in Cloud Computing, led by Prof. Vishal Badgujar, an expert in Cyber Security and Cloud Computing. The session covered key topics like cloud architecture, service integration, and the value of certifications such as AWS and Oracle Cloud. Prof. Badgujar shared industry insights, helping students understand career paths and salary prospects in cloud computing. Participants gained technical knowledge in cloud infrastructure and security, enhancing their competence. The interactive Q&A provided valuable career guidance, inspiring students to explore advanced cloud technologies.





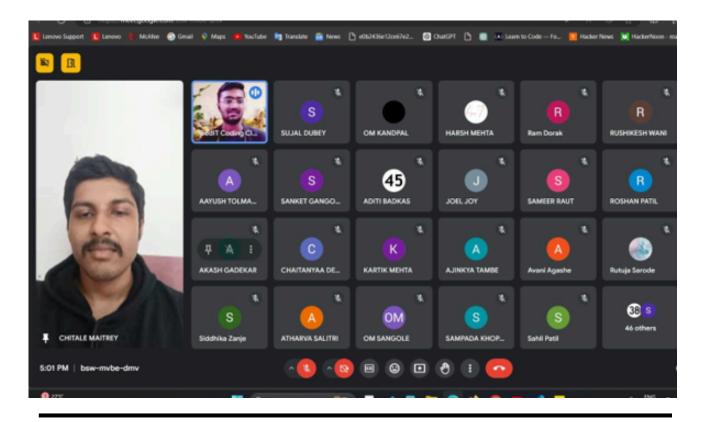
Date: 29th July 2024 - 1st August 2024

Event: Logic Building in C/C++ Workshop

# Summary

The Logic Building in C/C++ Workshop was a 4-day offline program designed to strengthen participants' coding and problem-solving skills. Targeting both beginners and intermediate learners, the workshop provided hands-on instruction, interactive coding exercises, and personalized feedback from expert trainers. Participants gained a strong foundation in C/C++, enhancing their logical thinking and ability to write efficient code. The event significantly improved problem-solving skills and sparked a deeper interest in programming. It also laid the groundwork for further learning and potential careers in software development.





Date: 10th August 2024

Event: Guidance Session on Internship & Placements

# Summary

The GedIT Coding Club organized its maiden Guidance Session on August 10, 2024, via Google Meet, with 81 attendees. The session featured Siddhesh Shinde, a Technology Apprentice at Morgan Stanley, who provided insights on internship and placement preparation. He shared valuable strategies for securing internships and excelling in the hiring process. The event, supported by faculty advisors Prof. (Dr.) P.P. Ghadekar and Prof. Pankaj R. Kunekar, aimed to guide students in their career journeys. The interactive session helped participants gain clarity on industry expectations and preparation strategies.





Date: 13th September 2024 - 5th October 2024

**Event: DSA Workshop** 

# **Summary**

The GedIT DSA Bootcamp was a 10-day program designed to help students strengthen their understanding of Data Structures and Algorithms (DSA) for technical interviews. Conducted both online and offline, the bootcamp provided clear explanations, strategic problem-solving techniques, and hands-on coding exercises. Participants improved their coding proficiency, problem-solving skills, and confidence in tackling complex interview questions. The interactive sessions reinforced theoretical knowledge with practical applications. The event also fostered a collaborative coding community, encouraging continuous learning and peer engagement beyond the bootcamp.





Date: 8th October 2024

Event: Guidance Session on Logic Building and Development

# **Summary**

The Guidance Session on Logic Building and Development aimed to help students enhance their problem-solving skills and interview readiness. Held offline, the session covered brute-force to optimal solutions for LeetCode problems, providing strategic insights into technical interviews. Participants engaged in hands-on coding exercises, gaining practical experience in solving complex questions. The workshop boosted confidence in tackling interviews while strengthening DSA concepts. It also fostered a collaborative coding community, encouraging continuous learning and peer support.





Date: 4th October 2024

Event: Six - Sigma Workshop, presented by Mr. Ajit Deshmukh

# **Summary**

The Guidance Session on Logic Building and Development aimed to help students enhance their problem-solving skills and interview readiness. Held offline, the session covered brute-force to optimal solutions for LeetCode problems, providing strategic insights into technical interviews. Participants engaged in hands-on coding exercises, gaining practical experience in solving complex questions. The workshop boosted confidence in tackling interviews while strengthening DSA concepts. It also fostered a collaborative coding community, encouraging continuous learning and peer support.



# SIG Reality Spectra



Date: 27th September 2024

Event: Six - Web AR Workshop

# **Summary**

The Introduction to Web AR event provided participants with insights into Web Augmented Reality (AR) technology and the tools used for its development. Attendees explored various Web AR frameworks and gained hands-on experience by creating a small project during the session. The event helped participants understand the fundamentals of Web AR, its applications, and how to develop interactive AR experiences. Guided by faculty advisors Prof. (Dr.) Premanand Ghadekar and Prof. Pankaj Kunekar, the session offered valuable practical knowledge, equipping students with the skills to explore Web AR further.



# Vodaphone Activities





# Achieving Quality Assurance

Name of Expert: Mr Prakrit Shrivastava

Date: Friday, O6th September, 2024

Attendees: 100+

# Summary

The Department of IT at VIT Pune, in collaboration with \_VOIS (Vodafone Idea Foundation), organized an Expert Talk on the topic "Achieving Quality Assurance" on 06th September 2024. The session aimed to provide students valuable insights with into the significance of Quality Assurance (QA) in the software industry, as well as the standards evolving practices and required to maintain high levels of software performance and reliability.





# Kubernetes Overview

Name of Expert: Ms. Rupali Naralawar

Date: Friday, 18th October 2024

Attendees: 100+

# Summary

On 18th October 2024, the Department of IT at VIT Pune, in collaboration with VOIS hosted an Expert Talk on the topic "Kubernetes Overview." This event aimed to familiarize students with fundamentals Kubernetes. of containerization. modern and infrastructure management. The session was part of the department's ongoing initiative to expose students to latest industry trends technological advancements through expert-led engagements.





# Freshers to Professional -The Transition Matrix

Name of Expert: Mr Ashutosh Singh

Date: Friday, 20th September, 2024

Attendees: 100+

# Summary

As part of the ongoing \_VOIS Tech University Engagement Program, the Department of IT at VIT Pune organized an Expert Talk on "Freshers to Professionals - The Transition Matrix" on 20th September 2024. The session aimed to guide students through the transition from academia to professional life, offering insights into what companies expect from freshers and how freshers can adapt to the corporate environment.





# Digital Transformation

Name of Expert: Mr Shivaprasad DU

Date: Friday, 09th August 2024

Attendees: 100+

# Summary

The "Digital Transformation" session organized by the Department of IT in association with Vodafone was an insightful event focusing the evolving landscape of technology and businesses impact on and industries. The speaker expert highlighted the significance of digital transformation in todav's world. emphasizing how it drives innovation, enhances customer experiences, and optimizes operations.



AWS CLOUD
FUNDAMENTALS



OUR SPEAKER

Mayur Shah

Deputy General Manager

# Kubernetes Overview

Name of Expert: Mr Mayur Shah

Date: Friday, 13th December 2024

Attendees: 100+

### Summary

AWS Cloud Fundamentals session aimed to familiarize students with the core concepts of AWS and its significance in the industry. The session concluded with an interactive Q&A where students clarified their queries directly with the expert. Mr. Shah provided insights into the practical applications of AWS and the pathways for gaining expertise in the field.



# PROJECT MANAGEMENT



our SPEAKER

Priti Vijaykumar Kore

Senior Manager

# Project Management

Name of Expert: Ms Priti Vijaykumar Kore

Date: Friday, 08th November 2024

Attendees: 100+

# Summary

As part of the ongoing \_VOIS Tech University Engagement Program, an insightful expert talk on Project Management was conducted. This session aimed to provide students with a deeper understanding of the dynamic field of project management and its evolving role in the industry. The interactive session allowed students to connect with industry professionals and gain practical knowledge about real-world applications.



# Student Achievements



# 121 Hackathon, EATON

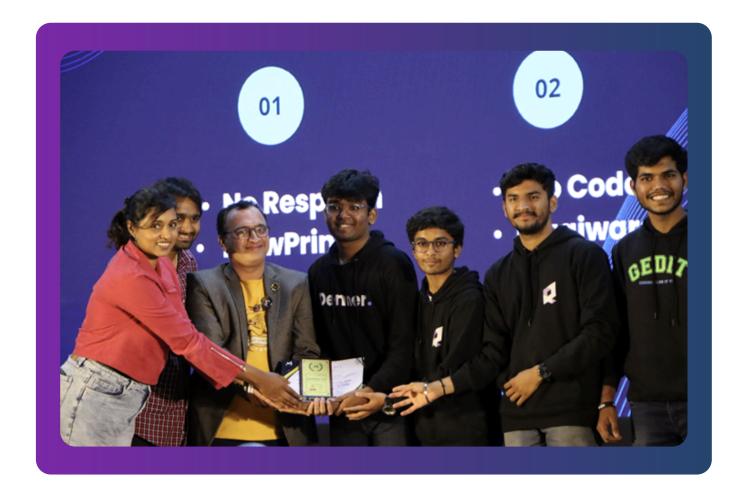


Participants: Digvijay Jadhav, Atharva G. Jadhav

Achievement: Winner in Technology Sector, Funding for the project.



# **COEP Pixelverse'24**



Participants: Arihant Awate, Arihant Awate, Arihant Awate, Bhavesh Patil

Achievement: 2nd Prize with Rs. 20000 /-, Incubation Opportunity for developing Indie Games under KRAFTON India.



# Amazon Smbhav Hackathon 2024



**Participant: Sanket Disale** 

Prize: Rs. 2,00,000



# Navadhara 2024



# Participants: Samruddhi Shinde, Shreyas Chulliyan, Shlok Bam

Rank: 5th



# Navadhara 2024



**Participants: Savit Pandita** 

Rank: 3rd prize with amount 3500/-



# **PCZSC Chess Competition**



**Participant: Vinit Dhoot** 

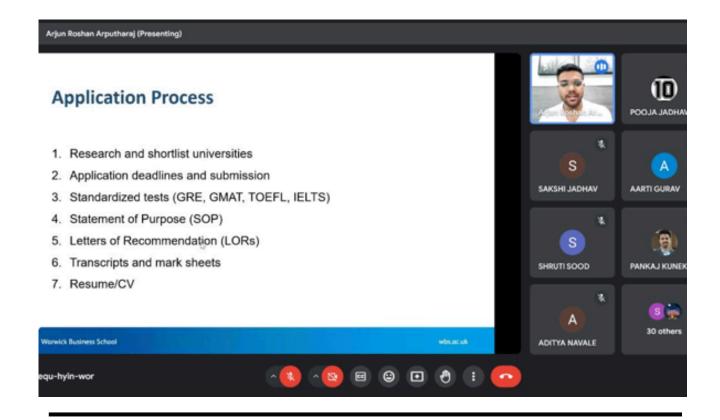
**Prize: Winner Gold** 



# Student Development Program



# Student Development Program



Date: 21st September 2024

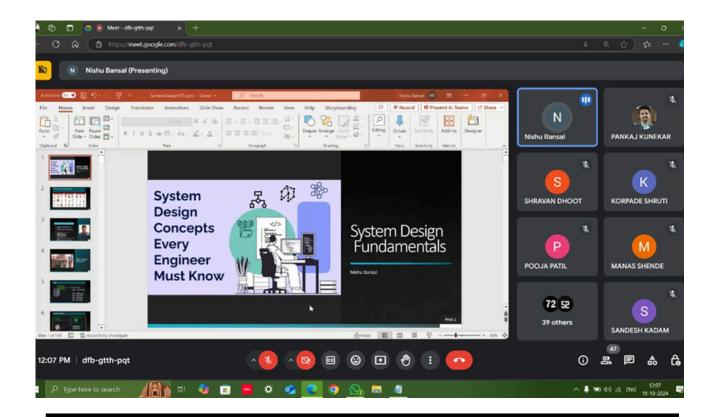
Event: Six - Master's Unlocked

# **Summary**

Arjun Arputharaj, a Master's student at Warwick Business School, shared valuable insights on pursuing a Master's degree, comparing programs in India and abroad. He emphasized the advantages of specialized knowledge for career growth and outlined the differences in admission criteria, duration, and networking opportunities between Indian and international institutions. The session provided practical strategies for preparing for standardized tests like the GMAT and GRE, highlighting key resources and time management techniques. Participants were encouraged to target top institutions, with recommendations for early preparation, mock tests, and aligning academic choices with career goals.



# Student Development Program



Date: 19th October 2024

**Event: System Design Fundamentals** 

# **Summary**

The system design session, organized by VIT Pune's Student Development Program (SDP) on October 19, 2024, was led by alumnus Nishu Bansal, Specialist Software Engineer at NICE Ltd. The event covered key system design concepts, including monolithic vs. microservices architecture, scalability, and performance considerations, with real-world case studies and best practices for technical interviews. Students gained insights into enterprise software design using AWS and microservices. The session marked a milestone as SDP's first system design event, engaging over 150 students and fostering alumni interaction to bridge academic learning with industry expertise.



# Faculty Development Program



# Game Development FDP at Zensar



Date: Friday, 08th November 2024

# Summary

The FDP on Fundamentals of Game Development was held at Zensar Technologies, Pune from July 29 to August 1, 2024, covering game design, UI/UX, game testing, JavaScript, and game development using Cocos Creator, Pixi, and Phaser. Industry experts conducted interactive sessions on gaming trends, monetization, and essential skills, along with hands-on exercises. The program concluded with Q&A, an interactive session for CoE students, and a group photo.



# Generative AI and its Multidomain



Date: Monday, 02nd December 2024

Day1: Session1: Prof. Dr. Pooja Jain

Topic: Introduction to Gen AI: From Theory to Applications

# Summary

Prof. Dr. Pooja Jain madam started her presentation with introduction of AI, ML, NN, DL, Gen AI, LLM by giving application of each model. She brief about the various applications of ML based on inclusion of Human expertise and non-inclusion of Human expertise such as face recognition, Infosys shares respectively. She further explained in detail difference between the SEARCH in GOOGLE and GEN AI by considering various real examples. Then further what is exactly Information Retrieval and how it is different from Gen AI was discuss thoroughly considering example of a singer. How Hallucination in Gen AI is very important research challenge in the field of Gen AI was explained.



# Generative AI and its Multidomain



Date: Monday, 02nd December 2024

Day1: Session2: Dr. Bhushan Garware

Topic: Advanced RAG

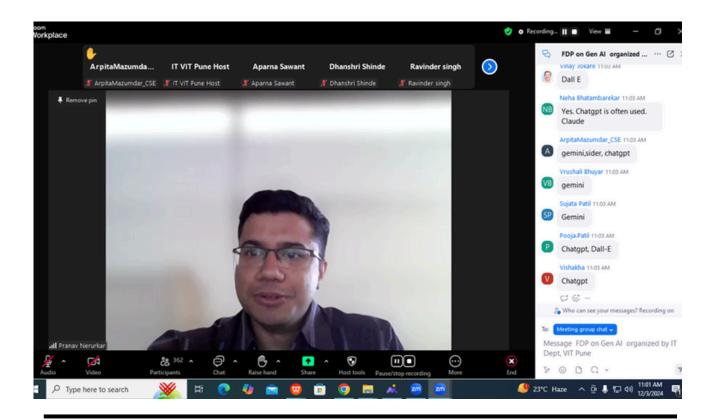
# Summary

The session was an insightful and engaging. The Dr. Bhushan Garware has started the session with LLM –that how it changed from ask me anything to ask me specific. Next, he has introduced the RAG- (Retrieval-Augmented Generation) and how it works. He has explained the working steps of RAG and advanced RAG. What is data ingestion & its critical role in RAG framework, Vectorstore, query enhancer and ensemble retrievers. He talked about metadata filtering and RAG evaluation. And in last he summerised the RAG evolution.

The session was conclued with vote of thanks by HOD and summerised by Prof. Varsha Dange.



# Generative AI and its Multidomain



Date: Tuesday, 03rd December 2024

Day2: Session1: Dr Pranav Nerurkar

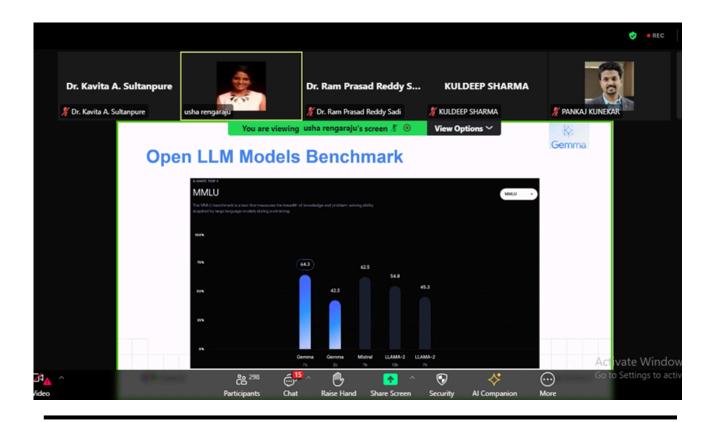
Topic: Introduction to Generative AI: Understanding the future of AI

Driven creativity

# Summary

The session, led by Dr. Pranav Nerurkar, covered the fundamentals of Generative AI, including the differences between AI, ML, and DL, how GenAI works, its applications, and ethical considerations. Various GenAI tools were introduced, along with an explanation of API keys and tokens. A hands-on demonstration using the Gemini API and Google AI Studio showcased model interaction and prompt engineering. The session concluded with an online quiz to assess participants' understanding.





Date: Tuesday, 03rd December 2024

Day2: Session2: Usha Rengaraju

Topic: Building Generative AI applications using Snowflake Cortex

& Snowflake Notebooks

#### **Summary**

The session by Usha Rengaraju focused on building Generative AI applications using Snowflake Cortex and Snowflake Notebooks. It covered open-source vs. closed-source models, the importance of open models, and comparisons between OpenAI, Gemini, and Gemma models. The discussion included Snowflake's released models, use cases of GenAI, Cortex Analyst, and the difference between Snowflake Copilot and Cortex Analyst. Additionally, it explored RAG (Retrieval-Augmented Generation) and Document AI, explaining their purpose and implementation.





Date: Wednesday, 04th December 2024

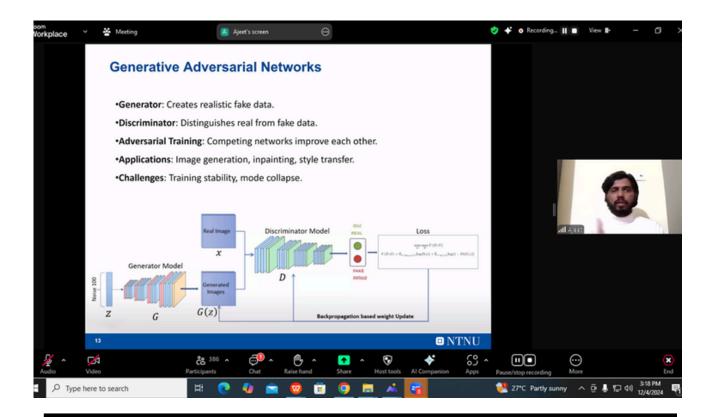
Day3: Session1: Prof. Dr. Shrikant Kallurkar

Topic: Al and Indian Knowledge System

#### Summary

Prof. Dr. Shrikant Kallurkar's talk focused on mass communication in higher education through AI and the Indian Knowledge System (IKS). He discussed challenges in the Indian education system, emphasizing industry readiness, flexibility, and quality. He highlighted AI's role in personalized learning, hybrid education models, and various teaching techniques like flipped classrooms. He also explained AI, GenAI, ML, and DL, along with AI's industry applications. The session concluded with key takeaways: AI lacks empathy, and controlling breath helps control the mind.





Date: Wednesday, 04th December 2024

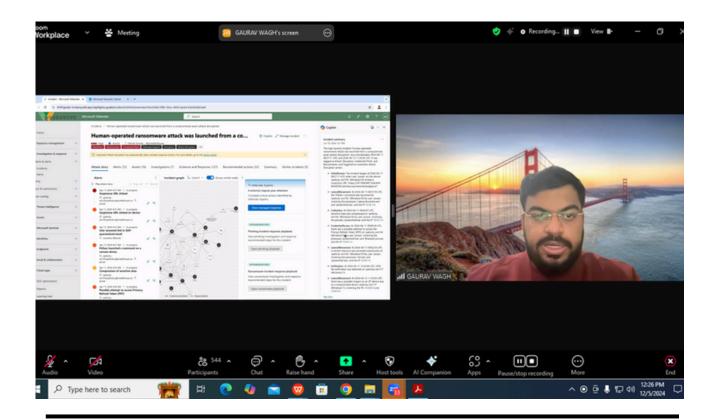
Day3: Session2: Dr. Ajeet Pathak

Topic: Generative AI: Trends and Applications

#### Summary

Dr. Ajeet Pathak's session on Generative AI explored key trends, including creative content generation, personalization in e-commerce and healthcare, AI-augmented design, and synthetic data creation for AI training. He emphasized human-AI collaboration in education, research, and content development. Various applications, such as chatbots, gaming, and fraud detection, were discussed. Ethical concerns like bias, misinformation, and responsible AI usage were also highlighted. The talk concluded with insights on future possibilities and the need for responsible innovation to harness Generative AI's full potential.





Date: Thursday, 05th December 2024

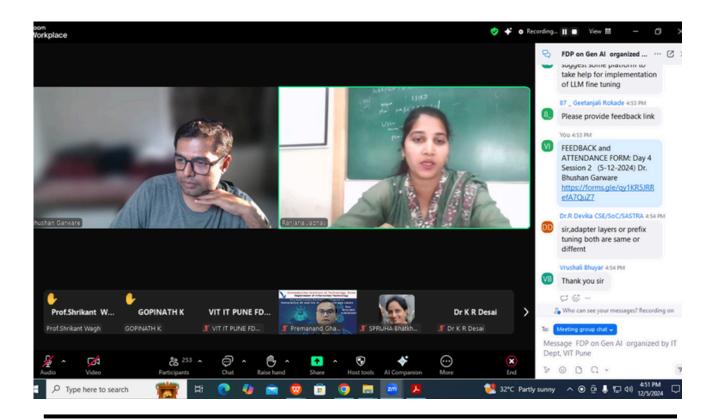
Day4 Session 1: Dr. Gaurav Wagh

Topic: Cyber Security and Al

#### Summary

Dr. Gaurav Wagh's session on Cybersecurity and AI covered key topics, including cybersecurity domains, onboarding security practices, MS 365 Defender tools, and handling security alerts. He discussed managing compromised endpoints and the importance of a collaborative security operations model. The role of AI in cybersecurity was explored through Microsoft Copilot, AI-driven web security, and workflow integration. A live demo showcased AI's role in detecting and mitigating human-operated ransomware attacks. The session emphasized how AI enhances cybersecurity operations and threat management.





Date: Thursday, 05th December 2024

Day4 Session2: Dr. Bhushan Garware

Topic: Fine-tuning LLM

#### Summary

Dr. Bhushan Garware's session on fine-tuning LLMs covered key concepts, starting with the role of Transformers and attention mechanisms. He explained the LLM tuning flow, focusing on instruction-tuned models and Parameter Efficient Fine-Tuning (PEFT) to optimize training costs. Techniques like prompt tuning, Reinforcement Learning with Human Feedback (RLHF), and step-by-step distillation were discussed. A live demonstration on Google Al Vertex showcased real-world fine-tuning applications. The session concluded with insights on prompt engineering and few-shot learning, highlighting efficient and cost-effective model development.





Date: Friday, 06th December 2024

Day5 Session 1: Mr. Nishu Bansal Topic: Generative Al and Cloud

#### Summary

Mr. Nishu Bansal's session on Generative AI and Cloud explored how cloud computing enhances the scalability of GenAI models. He explained the fundamentals of GenAI, differentiating it from ML and DL, and discussed Foundation Models for various AI applications. The session covered Amazon Bedrock, demonstrating its role in simplifying AI model deployment. AI vectors and agents were explored, showcasing their use in similarity searches and automation. Various industry use cases, including customer experience, employee productivity, and content creation, were highlighted. The session concluded with insights on leveraging cloud-based AI for innovation and efficiency.





Date: Friday, 06th December 2024

Day5 Session2: Dr. Nilesh Uke

Topic: Ethical Considerations in Generative Al

#### Summary

Dr. Nilesh Uke's session on Ethical Considerations in Generative AI covered its impact on education, healthcare, and business while highlighting concerns like data privacy, misinformation, and biases. He emphasized faculty responsibility in guiding ethical AI use and maintaining academic integrity. Challenges such as over-reliance on AI, job displacement, and ethical misuse were discussed. The session concluded with insights on recent GenAI developments and the need for a balanced, responsible approach to its adoption.



# **Extension Activity**



Date: 12/07/2024
Session 1: Barclays
Topic: Cyber Security

#### Summary

A Cyber Security awareness session was conducted by Barclays for Vishwakarma Group of Institute faculty on July 12, 2024, at Barclays Campus, Pune. The session covered penetration testing, cybersecurity operations, application security, and secure coding principles. Discussions also focused on operational resiliency and business continuity strategies. The event provided valuable insights into enhancing security practices in the digital landscape.



# **Extension Activity**



Date: 19/07/2024

Session 2: Mr. Pritesh Jain

Topic: Current Trends in IT and Future Career

#### Summary

A session on Current Trends in IT and Future Careers was conducted by Mr. Pritesh Jain, Director, EagleDrift Technologies, for third-year IT students at VIT Pune on July 19, 2024. Key topics included industry requirements, the importance of certifications, rapid technological advancements, and career-building guidance. The session provided valuable insights to help students align with evolving IT trends.



# **Extension Activity**



Date: 18/12/2024

Session 3: Prof. Pankaj Kunekar

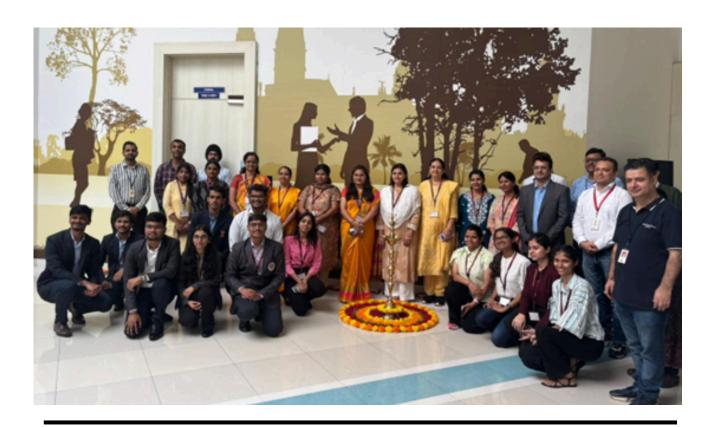
Topic: Impact of Social Media and Cybercrime Awareness

#### Summary

The cybercrime awareness session led by Pankaj Kunekar educated students on cyber threats, social media risks, phishing, and online scams, with real-life case studies. Discussions covered privacy settings, gaming ethics, cyberbullying, and preventive measures like strong passwords and two-factor authentication. Students actively engaged in sharing concerns and solutions, while reporting mechanisms (1930 helpline, cybercrime.gov.in) were highlighted. The session successfully promoted responsible digital practices and online safety awareness.



# **Industry Visit: Infosys**



Date: 3/10/2024

#### Summary

The Engineering Next 2024 visit to Infosys, Pune, on October 3, 2024, provided students and faculty with valuable industry insights. Key sessions included presentations on AI, Cloud Computing, and Digital Transformation, along with panel discussions on future tech trends and cybersecurity. Students engaged in a Q&A session on career paths and internships, followed by a facility tour showcasing Infosys' work culture and innovation. Keynotes by industry leaders and networking opportunities enriched the experience. The visit strengthened academia-industry collaboration, preparing students for future careers in IT.



# Katraj Lake Area Cleanliness Drive



# Swami Samarth Old Age Home Visit





# MOU'S WITH INDUSTRIES



# MOU'S WITH INDUSTRIES

Sr. No	Company	Duration
1.	ENSIN Entrepreneurship startup and Innovation Forum	2 years
2.	Erfinden Technologies Pvt Ltd	3 Years
3.	EagleDrift Technologies Pvt Ltd	3 Years
4.	Shaurya Technosoft Private Limited	3 Years
5.	Indian Chamber of Commerce in South Korea	-















Sr. No	Student Name	Company
1.	Arpit Patil	Wolters Kluwer, India
2.	Sayee Mohan Zanzane	Wolters Kluwer, India
3.	Nitin Choudhary	Infineon Technologies India
4.	Mayuresh Dharwadkar	Infineon Technologies India
5.	Ajay Gonepuri	Infineon Technologies India
6.	Yash Shaligram	Infineon Technologies India
7.	Apoorva Kulkarni	Forma.ai
8.	Sanket Disale	Semtech
9.	Shivam Tiwadi	Wolters Kluwer, India



Sr. No	Student Name	Company
10.	Ajinkya Ghansham Ghusarkar	IBM
11.	Girish Anil Nikam	Infineon Technologies India
12.	Dhawal Sakharwade	Anantadi Tech
13.	Siddhesh Shinde	Morgan Stanley
14.	Prathamesh Deshpande	IBM
15.	Bhavika Prakash Chavan	Kirloskar Pneumatic Company Limited
16.	Atharva Thokal	5TechG
17.	Sarthak Khare	Colgate Palmolive
18.	Nishka Vijay Mane	CRESCENDO WORLDWIDE PVT. LTD.



Sr. No	Student Name	Company
19.	Aryan Mahesh Karande	Pi Labs.ai
20.	Pratham Adav	Pi Labs.ai
21.	Omkar Sonyabapu Vyavhare	Envision
22.	Anushka Popalghat	KPMG
23.	Sushrut Anil Patil	Goloka IT
24.	Adwait Mali	Tech Mahindra
25.	Chinmay Saraf	Tech Mahindra
26.	Nikhil Mahajan	Pi Labs.ai
27.	Shreyash Tekade	HSBC



# **Student Editors**



Dr. Kavita A. Sultanpure Associate professor



Shreyas Chulliyan SY, IT in <u>LinkedIn</u>



Samruddhi Shinde SY, IT in <u>LinkedIn</u>



Shlok Bam SY, IT in <u>LinkedIn</u>