

DAYANANDA SAGAR UNIVERSITY



SCHOOL OF
ENGINEERING

School of Engineering

Department of Computer Science

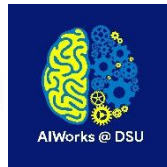
(Artificial Intelligence and Machine Learning)

REPORT ON

“7 Days Hands-on Placement Training Workshop”

Conducted by

AIWorks@ DSU Club



09th February 2024 to 19th February 2024

Convener:

Dr. Jayavrinda Vrindavanam, Professor and Chairperson, Department of CSE (AI & ML)

Faculty Coordinator:

Dr. Vinutha N, Associate Professor, Department of CSE (AI & ML)

Prof. UdayaBhaskara N, Assistant Professor, Department of CSE (AI & ML)

Student Coordinators:

Mr. Ratan Ravichandran, Student, Department of CSE (AI & ML)

Ms. Sakshi Archana, Student, Department of CSE (AI & ML)

Ms. Sayli Bande, Student, Department of CSE (AI & ML)

Mr. Shriyans Arkal, Student, Department of CSE (AI & ML)

Mr. Bharath Sharma, Student, Department of CSE (AI & ML)

Mr. Yudhajit Jana, Student, Department of CSE (AI & ML)

The CSE (AI and ML) department organized a 7-days hands on session placement training workshop in collaboration with the AI Works @ DSU club. This would be extremely useful for students so as to set them straight and clarify doubts they might have regarding placements.

The event started on 9th February 2024, On the first day Arham Asif Syed, an 8th semester student of AIML, Dayananda Sagar University briefed 6th semester students with regard to Placements and Higher Education. Arham emphasized the critical aspects of interpreting placements and deciding on higher studies. He underscored the significance of CGPA, illustrating how it profoundly influences career trajectories.

The key takeaways from his talk were:

placements:

- CGPA significantly influences job opportunities and salary.
- Prepare for placements by focusing on required skills and projects.
- Placement process involves aptitude tests, technical tests, and interviews.
- Start studying to improve CGPA, practice aptitude tests, and coding skills.
- Backlogs negatively impact job prospects.
- Accuracy in CGPA and avoiding duplicate applications is crucial.

Higher Studies:

- Decide on country, qualification, and budget for higher studies.
- Consider agencies for assistance if needed.
- Gather required documents including mark cards, transcripts, LORs, resume, and SOP.
- Agencies like IDP can streamline the process and offer support.
- Differentiate between Masters and PGD, considering specialization and budget.
- Pros and cons of studying in USA, Canada, Australia, New Zealand, and Europe.

Resume Development:

- Keep resume concise (1-2 pages) and impactful.
- Active participation in events and extracurricular activities enhances resume.
- Publishing papers and engaging in extracurriculars demonstrate commitment and skill.

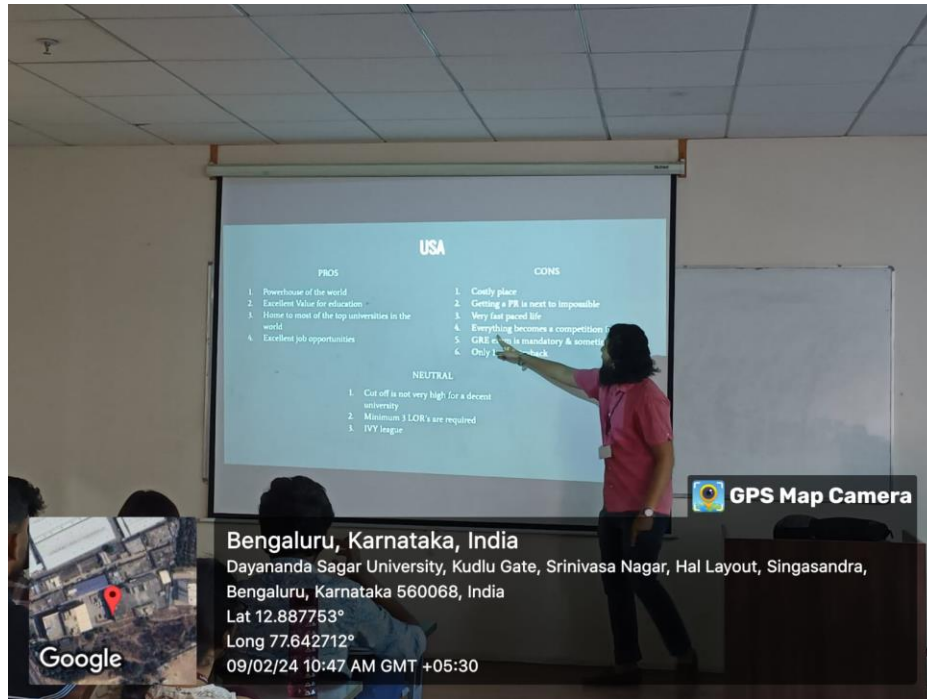


Image 1: Arham emphasizing on pros and cons about studying abroad

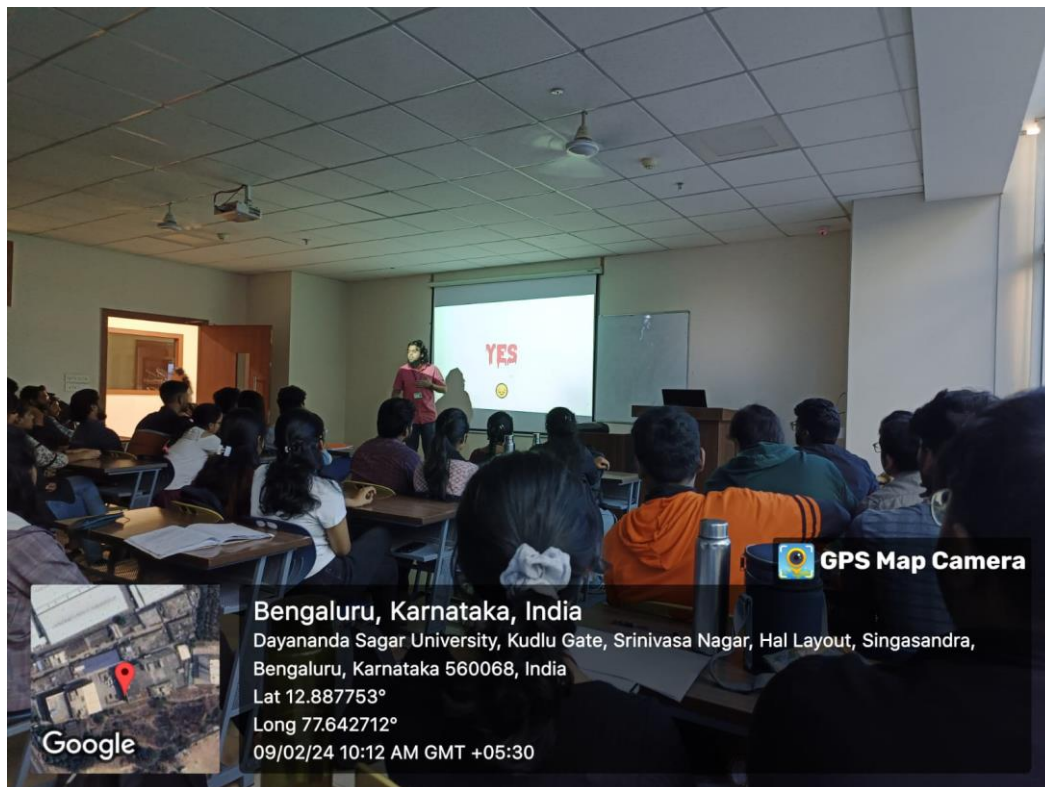


Image 2: Arham educating the students regarding placements.

On the second day of this workshop, Interviews and Technical Tests with TCS – an informative session, was conducted on 10th February 2024 from 11:00 AM to 1:00 PM, was an insightful and engaging event aimed at preparing students for job placements. Dr. Vinutha N, the host,

introduced the two distinguished speakers, Thippeswamy K M and Lingaraju M J, seasoned professionals in the IT industry with over 10 years of experience, currently working in TCS.

The key takeaways from this talk were:

- Importance of crafting an impressive resume using templates and showcasing achievements effectively.
- Formal dress code and thorough research on companies emphasized for interviews.
- Technical coding practice recommended on platforms like Hackerearth, Hackerrank, and Geeksforgeeks.
- Mock interview questions conducted to refine participants' responses.
- Structuring responses for common questions highlighted.
- Importance of keeping up with latest technology emphasized.
- Group discussion rounds on topics like AI and food delivery encouraged critical thinking and communication skills.
- Participants actively engaged in coding exercises including string manipulation and pattern printing.
- Notable participants showcased problem-solving skills in a productive learning environment.

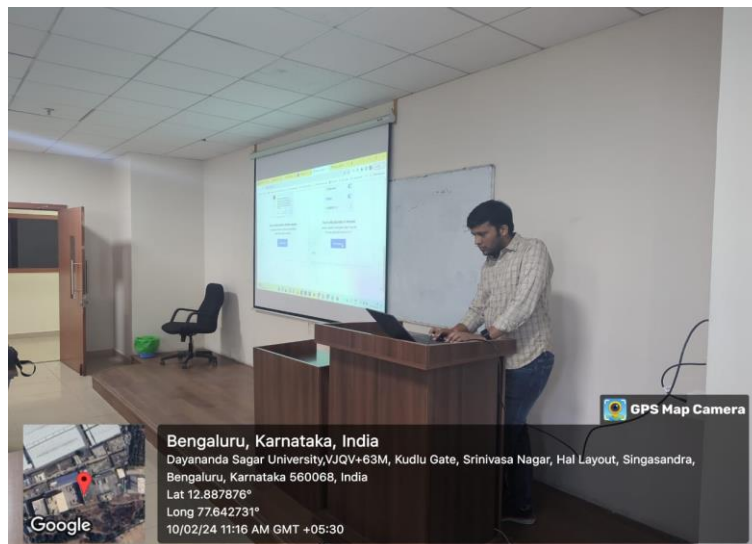


Image 3. Mr. Thippeswamy during the session



Image 4. A glimpse of the Group Discussion with speakers Ratan Ravichandran, Vinay R, Keshav Sairam and Sayli Bande



Image 5. A Commemorative picture with Dr. Vinutha N, Mr. Thippeswamy K N, Mr. Lingaraju M J and the participants of the event

The Third day of this workshop was a company profiling event, which involved training the students on doing background research about the company before applying for it or joining. This promotes a healthy attitude to the employer, as well as teaching the students the know-hows of the dos and don'ts before an interview. The event conducted was a competition hosted by Ratan Ravichandran, wherein the crowd was split into teams and each team would be given a company. The team would then have to profile the company in the context of placements and present their findings to the whole class.

The teams and companies were as follows:

1. team 1: Delta X
members: (lead) Sayli bande, shriyans arkal, sakshi archana
2. team 2: Cyware
members: (lead) Alisha alias, K nageshwari Durga, Kunjan Singh
3. team 3: Nokia
members: (lead) Adnan K, Gaurav NM, Bhavya Sharma
4. team 4: Aptean
members: (lead) Anirudh Sajith, rohan john Varghese, diksha Sinha
5. team 5: Impelsys
members: (lead) Harsh manalel, ashish patil
6. team 6: IBM
members: (lead) Vinay R, Mohith N, Mokshitha M, Chaitanya Srinivas

The students then documented and presented their findings, highlighting important points such as the relevance of the role to the industry, company's domain, history, mission, values, products/services, competitors, industry trends, and recent news. Each team was given 10 minutes to present about the company.

These presentations were judged by Dr. Udayabhaskara and Dr. Vinutha N based on Coverage of topic, Organization of points, Depth of Information , Clarity and Readability, Accuracy and Reliability, Engagement and Interest, and Overall Quality of Presentation.

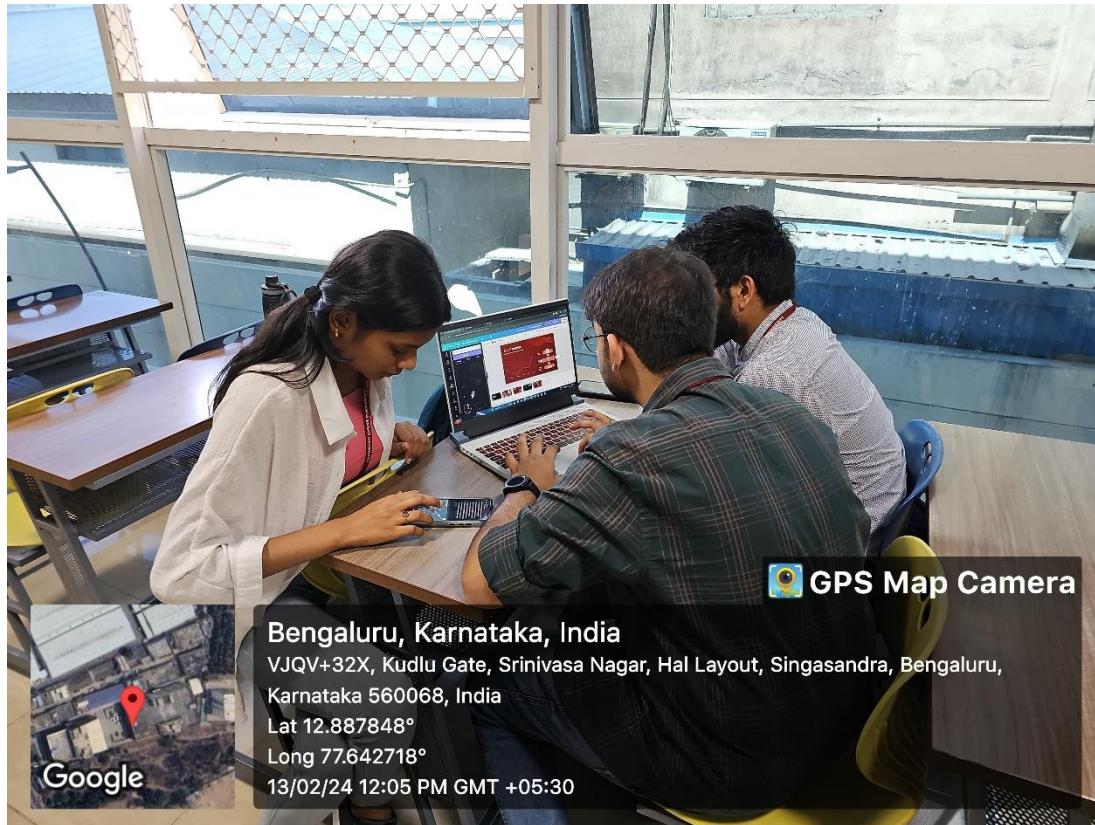


Image 6: Students working to create profiles of the companies.



Image 7: All the groups participating in the Profiling Event

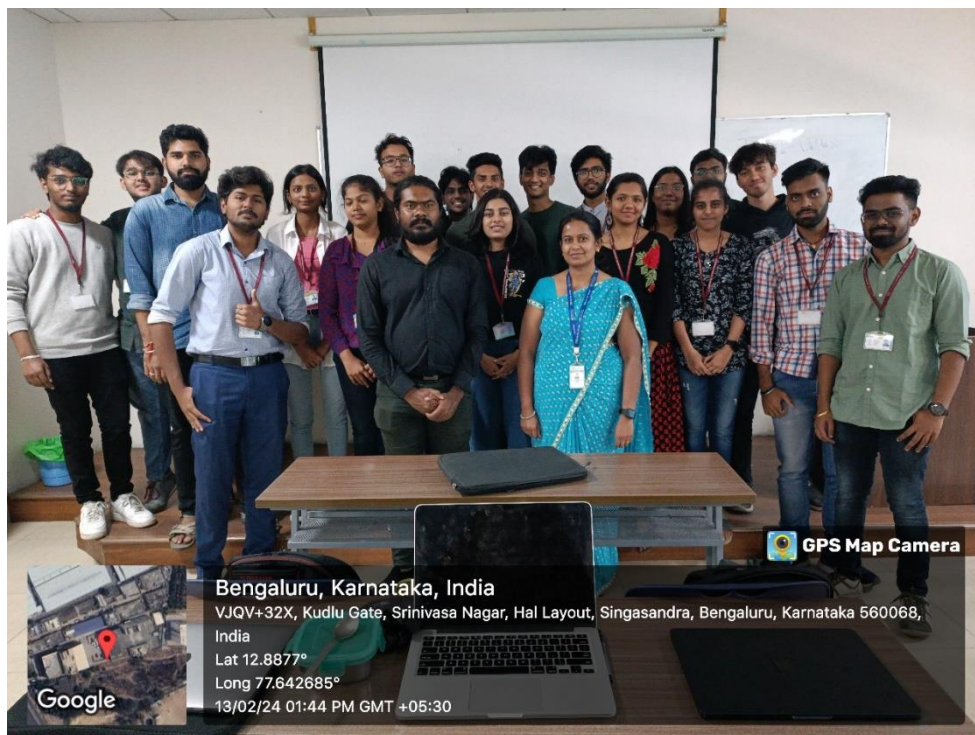


Image 8: Commemorative photo with Judges and Coordinators

The next day of the workshop, on 14th February 2024 featured Vigneshwara C, a seasoned ML Engineer at Aramco, Saudi Arabia. Drawing from his rich career journey, Vigneshwara provided valuable perspectives and advice for aspiring data scientists and ML engineers, offering a glimpse into the dynamic landscape of the field and practical strategies for success.

The key takeaways from this talk were:

- Utilizes ML to monitor, improve, and deploy AI/ML solutions.
- Recommends starting profiling for placements in 6th semester.
- Data-driven approach inspires involvement in data science.
- Essential traits for ML engineers: Iterative, statistical, problem solver, programmer.
- India's domestic market offers abundant opportunities but faces competition.
- Emphasizes importance of upgrading skills as companies adopt advanced technologies.
- Hands-on approach to learning coding; embrace errors for growth.
- Industry workflow involves development, testing, and production sites.
- Tools and applications: MLflow, Kubeflow, Nvidia Jetson, Docker, Informatics.
- Certifications: Professional certificates from company portals carry value.
- Job opportunities abroad offer exposure and competitive salaries.
- Interview preparation includes aptitude, coding, communication, and personality tests.
- ML Ops integrates code development and operations for optimal results.



Image 9: Mr. Vigneshwara giving his talk to his audience



Image 10: Mr Vigneshwara receiving his certificate from Dr Vinutha.

The 4th day of the workshop was a talk featuring Mithun G, a session on technical skill upgradation and career path. He is a B.Tech (Honors) graduate in Data Science from Jain University, currently serves as a Service Info Developer at Hewlett Packard Enterprise (HP Enterprise) in Bengaluru. Specializing in Telco Solutions, he contributes to the implementation of Intelligent Assurance products, utilizing data analysis and Machine Learning to enhance decision-making processes.

The key takeaways from this talk were:

- The session began with an overview of the exponential growth in the global AI software market, emphasizing its transformative impact on the world economy until 2025.
- Various roles in the AI/ML field were discussed, including Data/Business Analyst, Data Engineer, ML Engineer, AI Engineer, MLOps Engineer, and Data Scientist, highlighting the dynamic nature of the industry and the demand for skilled professionals.
- Trends in AI/ML were outlined, tracing historical developments such as GPUs, TPUs, RNNs, LSTMs, and the BERT model, leading to the current focus on Generative AI. Questions were raised about the future trends in the upcoming decade.
- A practical roadmap for skill development in AI/ML was provided, starting with basics like Python and progressing through Big Data, databases, machine learning, and deep learning using tools like TensorFlow and PyTorch.
- Hands-on projects were recommended to enhance practical experience, covering areas such as time-series forecasting, churn prediction, recommendation engines, applied mathematics, data analysis, and deep learning.
- The industry-academia gap was highlighted, emphasizing differences in project approaches, data handling, collaboration tools, and the importance of aligning academic learning with industry requirements.
- The significance of professional certificates in validating expertise was stressed, with specific recommendations including Google Data Analytics, IBM Data Science, AWS Certified Machine Learning - Specialty, and Microsoft certifications.

- Several online courses were recommended for AI/ML learning, including those from IBM Cognitive Data, Udemy's Pierian Data courses, and the O'Reilly book "Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow."
- The introduction of the ATS Resume Checker, a tool for resume review, was shared, offering individuals a way to enhance their resumes and increase their chances in the job application process.
- The session concluded with an emphasis on the importance of continuous learning and practical application in the dynamic field of AI/ML. Mithun thanked the audience for their active participation and encouraged them to explore the suggested online courses and professional certificates.

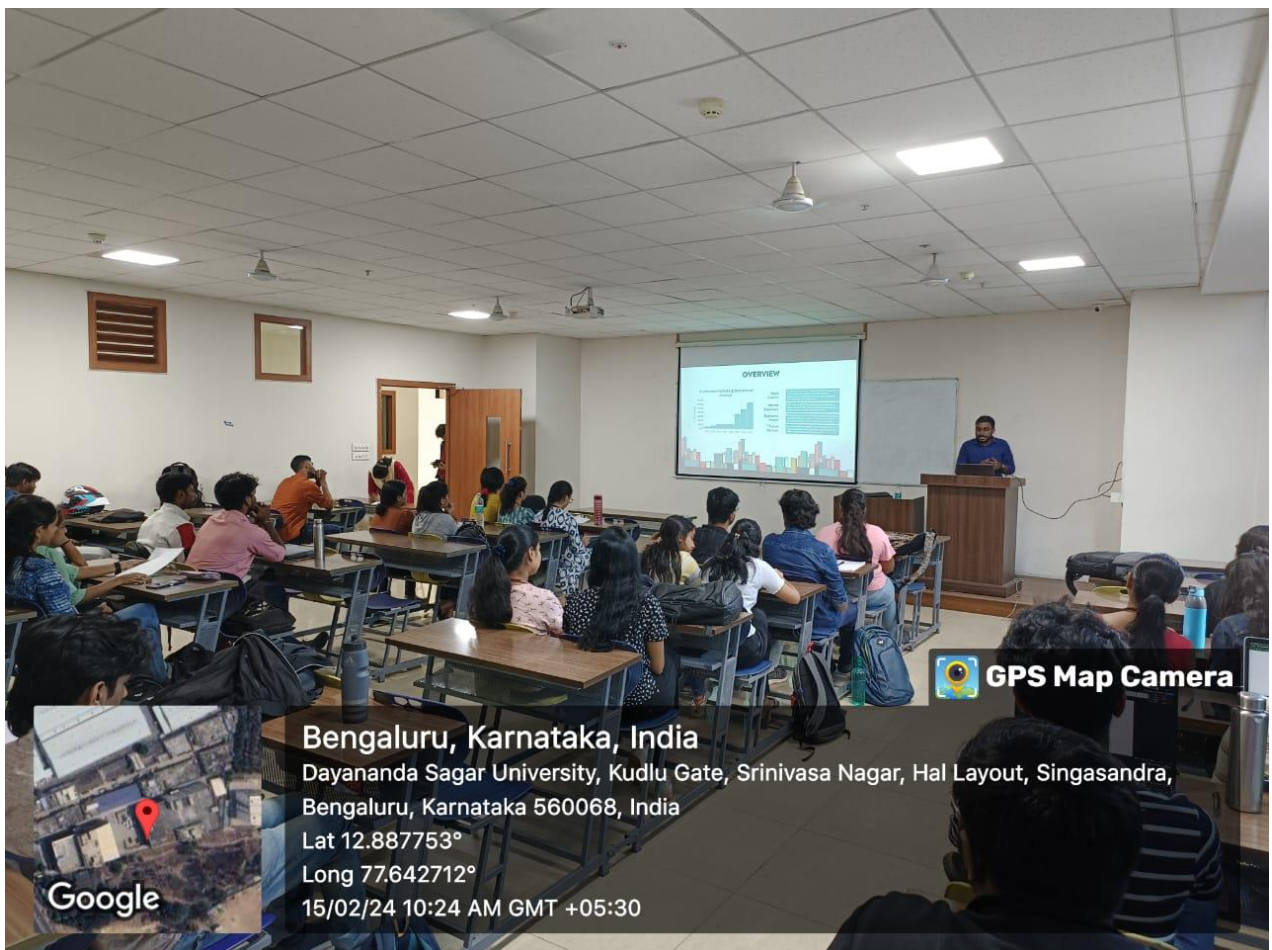


Image 11: Mithun G giving his talk to his audience



Image 12: Mithun G receiving his certificate from Dr Vinutha.

The final day of the workshop was a talk featuring Sandhi Gupta, a session on using Latex (Hands-on). She is an 8th Semester student from Dayananda Sagar University of the AI/ML Department.

The key takeaways from this talk were:

- LaTeX, a typesetting system, is extensively used for scientific and technical documents due to its proficiency in handling mathematical equations, bibliographies, and cross-referencing.
- It excels in precision and high-quality typesetting, making it a preferred choice for researchers, academics, and engineers.
- LaTeX provides complete control over layout and formatting, allowing personalization without the unpredictability of WYSIWYG editors.
- Automation of tasks like numbering, cross-references, and table of contents generation streamlines the editing process, saving time for actual writing.
- Setting up a LaTeX environment involves choosing a compatible distribution (TeX Live, MacTeX, MiKTeX) and user-friendly editors like TeXMaker or Overleaf.
- LaTeX's document structure includes a preamble defining global settings, a body containing core content, and macro definitions for custom commands.
- Text and equation formatting in LaTeX is accomplished through various commands for bold, italics, font size, spacing, and precise control over mathematical syntax.
- BibTeX simplifies bibliography management, ensuring automatic formatting of citations and references to predefined or custom styles.
- LaTeX allows precise control over tables, including size, columns, rows, and cells, and figures with support for various image formats, scaling, and captioning.
- Collaborative writing on platforms like Overleaf facilitates real-time teamwork, and integrating LaTeX with Git enhances version control.
- Comments within the code, effective time management, staying updated with LaTeX distributions, and maintaining an organized folder system are essential for efficient research article preparation.
- LaTeX's proficiency in mathematical typesetting and its ability to produce professional-standard documents make it a valuable tool in the field of AI and ML.



Image 13: Sandhi giving her talk to her audience

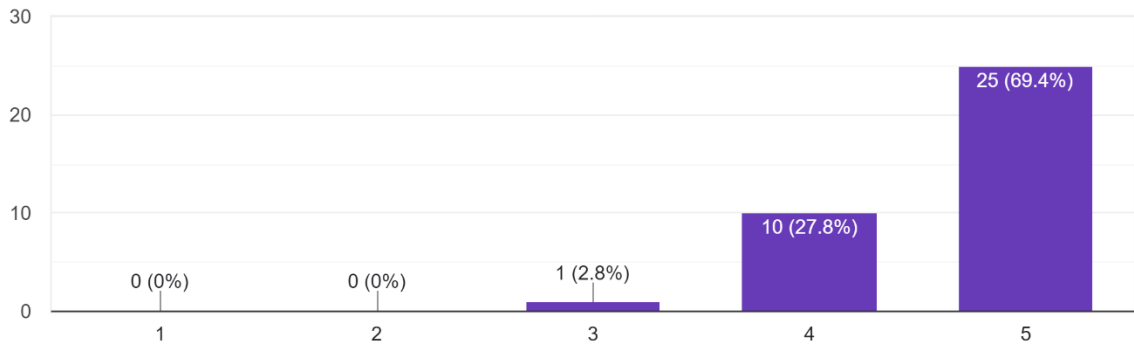


Image 14: Sandhi receiving a memento from Dr Vinutha.

Feedback:

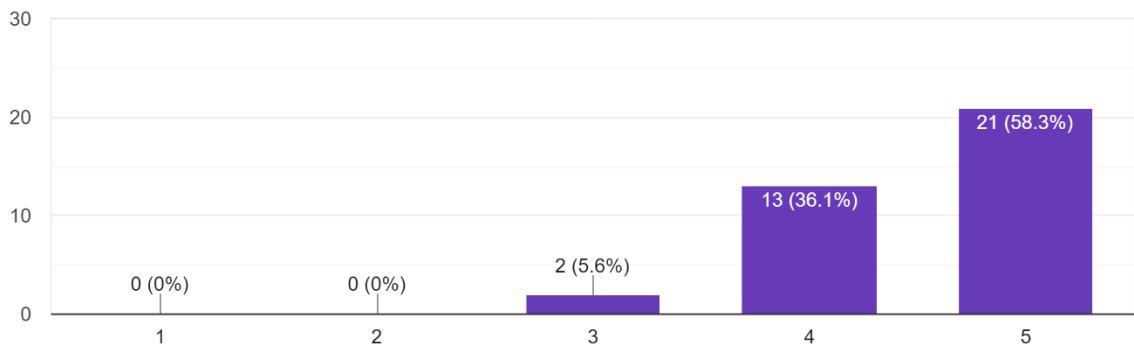
Please rate the event organization on a scale of 1 to 5, with 5 being the highest.

36 responses



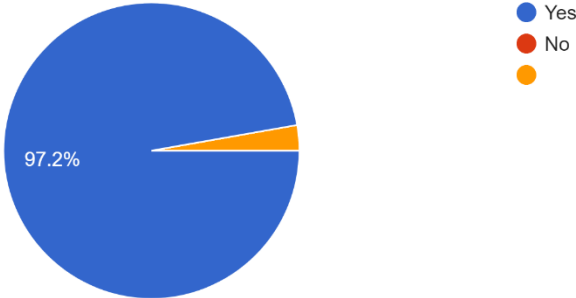
On a scale of 1 to 5, how satisfied are you with the variety of industry experts and seniors invited?

36 responses



Did the insights shared by industry experts and seniors prove beneficial for your understanding of the placement process?

36 responses



Would you like to attend such events in the future?

36 responses

