



Report on online workshop

Post Quantum Cryptography – Research opportunities

Introduction:

An Online Workshop on “Post Quantum Cryptography – Research Opportunities” was successfully conducted on **06 February 2026** from **09:30 AM to 11:00 AM (IST)** by **JSS Academy of Technical Education, Bengaluru**. The workshop was organized with the objective of creating awareness about the emerging impact of quantum computing on existing cryptographic systems and highlighting future research directions in quantum-safe security.

The program witnessed **active participation from over 100 participants**, including faculty members, research scholars, and students. The sessions were highly informative and interactive, enabling participants to gain insights into post-quantum cryptographic algorithms, current research challenges, and emerging opportunities in secure communication systems. The workshop significantly enhanced the participants’ understanding of quantum-resistant security mechanisms and provided a strong foundation for pursuing research and innovation in the field.

Objectives:

The key objectives of the workshop were:

1. To introduce the fundamentals of quantum computing and its implications on cybersecurity.
2. To create awareness about vulnerabilities in existing cryptographic algorithms.
3. To familiarize participants with Post Quantum Cryptography (PQC) concepts and standards.
4. To highlight research opportunities in quantum-safe cryptographic systems.
5. To encourage faculty members and students to pursue advanced research in cryptography.

Resource Person:

The session was delivered by **Mr. Rajeev Gupta, Senior Cryptography Architect (USA), Dhiware Technologies Pvt Limited, Bengaluru** an industry expert with vast experience in cryptography, cybersecurity, and secure system design. His session provided both theoretical insights and practical perspectives on post-quantum security.

Topics Covered:

- Introduction to classical and quantum computing.
- Fundamentals of quantum computing: qubits, superposition, and entanglement.
- Key milestones in quantum computing evolution.
- Classical cryptography versus quantum cryptography.
- Shor's Algorithm and its impact on RSA, ECC, and Diffie-Hellman.
- Grover's Algorithm and implications for symmetric cryptography.
- Harvest Now, Decrypt Later (HNDL) security threat.
- Overview of Post Quantum Cryptography algorithm families.
- NIST Post-Quantum Cryptography standards.
- Hybrid cryptographic approaches and implementation challenges.

Outcomes of the Workshop:

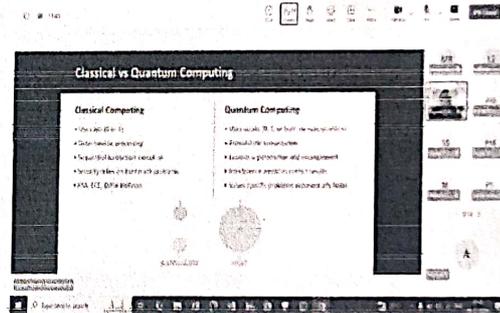
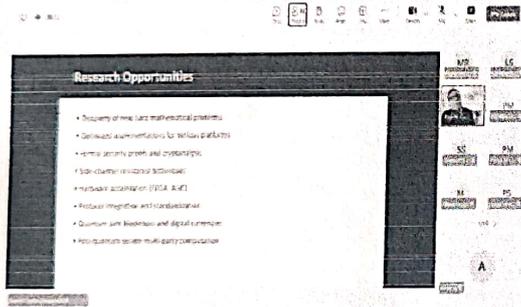
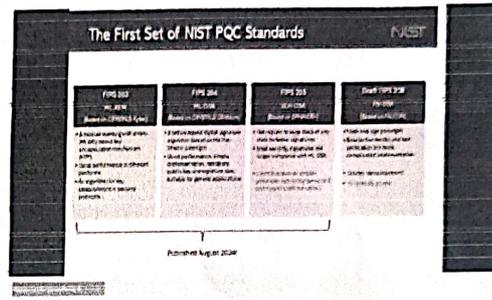
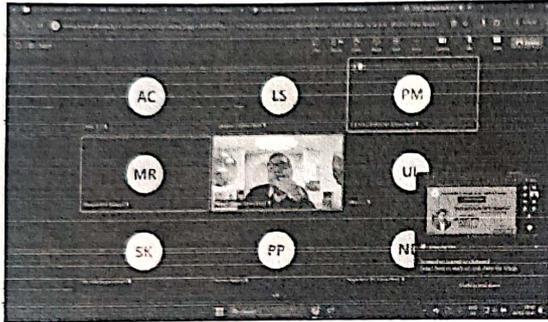
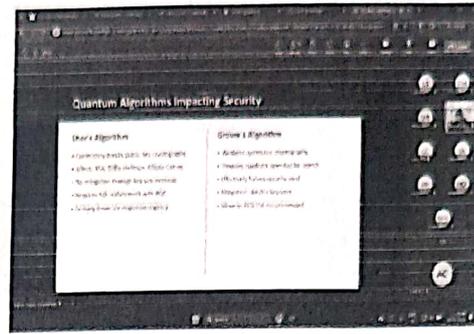
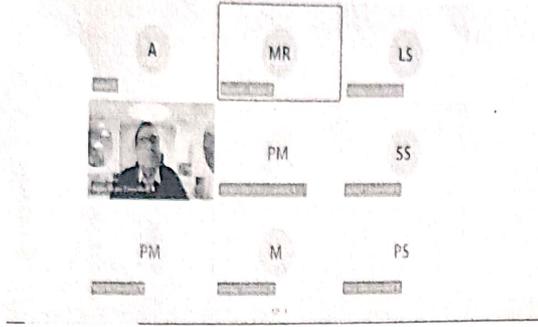
The workshop resulted in the following outcomes:

- Enhanced understanding of quantum computing threats among participants.
- Awareness of the need for transitioning to quantum-safe cryptographic solutions.
- Improved knowledge of NIST PQC standards and their applications.
- Motivation among faculty and students to undertake research in post-quantum cryptography.
- Strengthened industry-academia interaction in advanced cybersecurity domains.

Acknowledgement:

The coordinators sincerely thank **Mr. Manjunatha R**, Global R&D, DhiWare Technologies, for his valuable support and encouragement in organizing the workshop. The coordinators also express their heartfelt gratitude to the **Dr. Bhimasen Soragaon** Principal, JSS Academy of Technical Education, Bengaluru, for continuous guidance and support.

Screenshots:



Signature of Coordinators

Dr. P B Mallikarjuna, CSE

Malli

Dr. Anil B C, CSE (AI & ML)

Anil.B.C

Dr. Sreenatha M, ISE

Sreenatha

Signature of Principal

Dr. Bhimasen Soragaon

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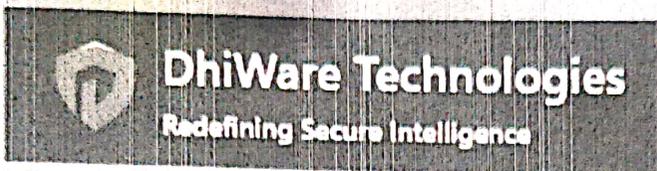
Sr.

8.2.20
PRINCIPAL

JSS Academy of Technical Education
JSS ATE Campus
Dr. Vishnuvardhan Road
Bengaluru 560 068



JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU



Online Workshop on

“POST QUANTUM CRYPTOGRAPHY”

-Research opportunities



Resource Person

MR. RAJEEV GUPTA

Guest Speaker

Sr. Cryptography
Architect(Consultant).
USA, Greater Chicago Area.

06 FEB, 2026

TIME: 09:30 AM - 11:00AM(IST)

Faculty Coordinators

Dr. R.B. Mallikarjuna, CSE

Dr. Anil B C, CSE(AI&ML)

Dr. Sreenatha M, ISE

Targeted Audience
Faculty Members & Students

Click Here to Join

<https://teams.microsoft.com/meet/49630207111457?p=muhq7pqqpkaliMHFE6>

Meeting ID: 496 302 071 114 57

Passcode: Du9o7qj9

(Microsoft Team)

Dr. BHIMASEN SORAGAON
Principal

WWW.JSSATEB.COM



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Department of CSE(Artificial Intelligence & Machine Learning)

Department Activities

SL No.	Title of Event	Academic Year
1.	Open Day-2025 (Project Exhibition)	2025-2026
2.	Engineers Day Celebration	
3.	Workshop on "From Concept to Action: A Practical Guide to AI Agents"	
4.	Workshop on Artificial Applications in Networking Attacks	
5.	Two day Workshop on-"Industrial Applications of Artificial Intelligence: A Practical Insight"	2024-2025
6.	Open Day-2025 (Project Exhibition)	
7.	IoT Workshop –A Hands on session	
8.	Workshop on "Insights of Image Processing & its Applications in Industry"	
9.	Workshop on " Java Spring Boot Applications"	
10.	Deep Learning & IOT	
11.	Protecting Innovation in the Digital Age: An Industrial Perspective	2023-2024
12.	Machine Learning underlying Mathematics -Industrial applications	
13.	Accelerate DevOps with Dockers & Kubernetes	
14.	Operating Systems & it's Importance in industry	2022-23
15.	Perspective forme the Industry on AI & ML & Generative AI/CHAT GPT/LLMS (Tvasta Analytx) Pvt Ltd	
16.	Transforming With AE & AI (LAXIS Analytics)	
17.	Assistive Devices by using AI	
18.	Workshop on Computer Vision AI model Development	
19.	Purpose In Life : Insights to Impact	
20.	One Day SDP on "Fundamentals of AI&ML"	
21.	Five Day FDP on IPR	
22.	Inauguration of Women in Big Data(MOU)	2021-22
23.	Skill & Up skilling for Employability	
24.	On "Creation of Healthy & Caring Relationship"	

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Department of CSE (Artificial Intelligence & Machine Learning)

Report on Open Day Project Exhibition – 06 December 2025

The **Open Day Project Exhibition** was successfully conducted on **06 December 2025** at the college campus. The event provided a platform for students from various departments to showcase their innovative project work, technical abilities, and problem-solving skills. The exhibition aimed to encourage creativity, hands-on learning, and interdisciplinary collaboration among students. A wide range of projects was displayed, covering emerging technologies and real-world applications. Students enthusiastically presented their ideas to faculty members, peers, and invited guests, demonstrating strong technical understanding and communication skills.

To ensure a fair and comprehensive evaluation of the projects, the following judges were invited:

Judges (Industry Experts)

1. **Mr. Manjunatha K R**
Global R&E Head, Dhiware Technologies
2. **Mr. Arun Velayudhan**
Strategic Leader, Dhiware Technologies
3. **Mr. Sharath S J**
Software developer, Facile consulting software privet limited

The judges engaged extensively with the participants throughout the event. They not only interacted with the students but also conducted a thorough review of the project demonstrations, examining the technical depth, innovation, and practical relevance of each exhibit. During these interactions, the judges offered constructive and insightful feedback, focusing on strengthening the students' technical understanding, refining their problem-solving approaches, and improving the clarity and effectiveness of their presentations. Their domain expertise and critical observations added substantial value to the evaluation process and enhanced the overall credibility of the exhibition.

Overall, the Open Day Project Exhibition received a positive response from attendees, faculty, and experts alike. It served as a highly enriching platform for students to showcase their creativity, apply their academic learning, and gain exposure to real-world expectations. The college expresses its sincere appreciation to the judges for their time and expertise, to the faculty coordinators for their dedicated planning and execution, and to the students for their enthusiastic participation. Their collective efforts played a vital role in ensuring the success of the even

Objectives of the Open Day Project Exhibition

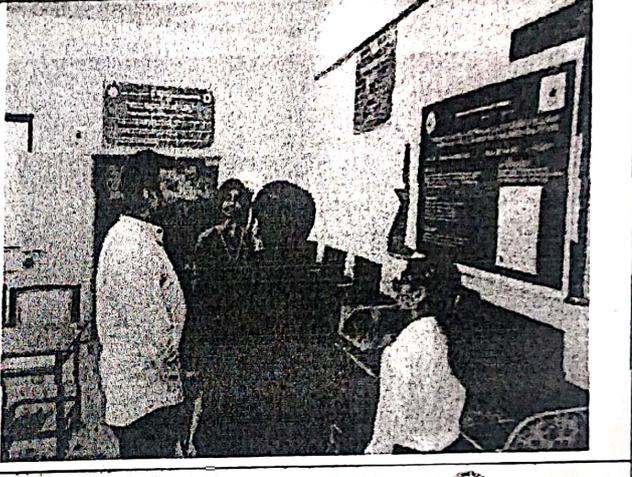
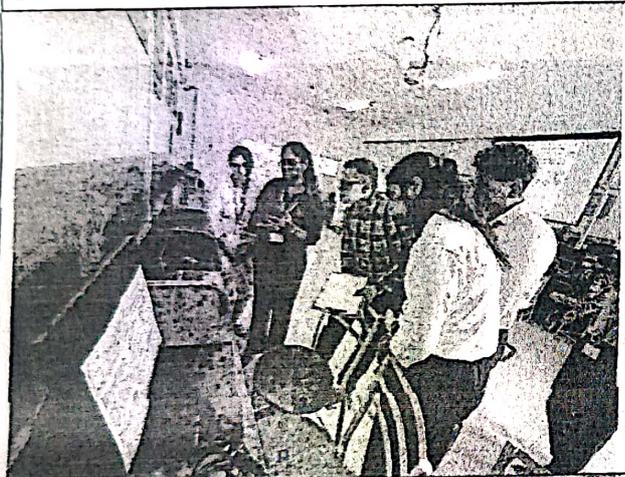
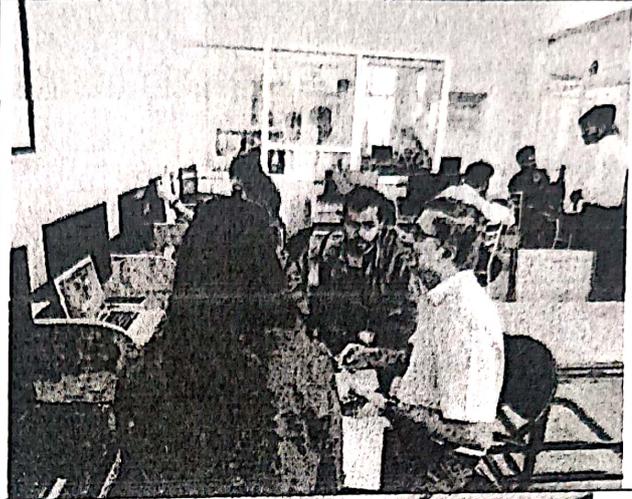
- To provide students with a platform to showcase their innovative ideas, technical skills, and project-based learning outcomes.
- To encourage creativity, critical thinking, and problem-solving through hands-on project development.
- To promote interdisciplinary knowledge-sharing among students, faculty, and industry experts.
- To enhance students' confidence and communication abilities through live project demonstrations.
- To obtain expert feedback from judges that can guide students in refining their work and preparing for future academic or industry challenges.

Outcomes of the Event

- Students gained valuable insights from expert evaluations, helping them identify strengths and areas for improvement in their projects.
- The event fostered a sense of teamwork, innovation, and practical application of classroom concepts.
- Participants improved their presentation and technical communication skills through real-time interaction with judges and visitors.
- Several projects demonstrated potential for further development, research, or incubation support.
- The exhibition strengthened the academic culture of the institution by encouraging experiential learning and student-driven innovation.

Overall, the Open Day Project Exhibition was well-received and proved to be a highly enriching experience for all participants. The college extends its appreciation to the judges, faculty coordinators, and students for their active involvement, enthusiasm, and support in making the event a resounding success.

Photos






JSS ACADEMY OF TECHNICAL EDUCATION, BENGALURU
DEPARTMENT OF CSE (AI & ML)
PROJECT EXHIBITION
OPEN DAY 2025

ADJUDICATORS: INDUSTRY EXPERTS

 Mr. Anand Kumar <small>General Manager, Project Operations at Advanced Technology</small>	 Mr. Anurag Venkatesh <small>Manager, Business Development at Advanced Technology</small>	 Mr. Anand Kumar <small>Senior Manager, Business Development at Advanced Technology</small>
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08 December 2025
8:00AM - 02:00PM

<small>Coordinator Mr. Anand Kumar Asst. Prof.</small>	<small>Head Dr. Anand Kumar Assoc. Prof.</small>	<small>Deant Academics Dr. Anand Kumar Professor, H.E. Dept.</small>	<small>Principal Dr. Anand Kumar</small>
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Signature

Signature Coordinator

Signature

Signature of HOD
Head of the Department
 Department of Computer Science & Engineering
 (Artificial Intelligence & Machine Learning)
 JSS Academy of Technical Education

Signature

Signature of Dean Academics

JSSATEB Campus, Dr. Vishnuvardhan Road, Srinivasapura, Bengaluru 560 060 Karnataka INDIA
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JSS MAHAVIDYAPEETHA
JSS Academy of Technical Education Bangalore 60
Dept. of CSE (Artificial Intelligence & Machine Learning)



Report

Title: Engineer's Day Celebration 2025
Category: Technical Session
Date: 15-09-2025
Target audience: Department of CSE (AIML) Students
No. of Resource Persons: 2
No. of Participants: 200
Organized by: Department of CSE(AIML)

Objectives:

The primary objectives of organizing the **Engineer's Day Celebration** by the Department of CSE (AI&ML) were:

- To commemorate the birth anniversary of **Sir M. Visvesvaraya**, a distinguished engineer and statesman.
- To inspire students by highlighting the contributions and responsibilities of engineers in nation-building.
- To provide a platform for interaction between students, faculty, and industry experts.
- To create awareness about the **emerging role of Artificial Intelligence** and its impact on careers and society.
- To encourage participation in initiatives such as **Savishkar Karnataka**, promoting innovation and entrepreneurship.

To cultivate values of creativity, ethics, and continuous learning among budding engineers

Introduction

- The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning) organized Engineer's Day to honour the birth anniversary of Bharat Ratna Sir M. Visvesvaraya, the legendary engineer, statesman, and visionary.
- The event aimed to celebrate the contributions of engineers to society, inspire students to pursue innovation, and create awareness about the emerging technologies shaping the future.
- The program was attended by faculty members, students, and esteemed dignitaries who shared their insights and motivated the budding engineers.

2. Dignitaries Present

- Chief Guest: Ms. Rohini Nag
- Guest Speaker: Mr. Aditya Malur, AI Powered Mentor & Consultant
- Dean of Student Welfare: Dr. Mahesh Kumar
- Savishkar Karnataka Representatives:
 - Mr. Sarvesh Gowda
 - Ms. Shruti Shivamurthy

3. Event Flow

- Lamp Lighting Ceremony: Symbolic inauguration by dignitaries, signifying the dispelling of ignorance and spreading of knowledge.
- Invocation Song: A soulful rendition Sahana H M from the cultural club *Swarabha*, creating a serene and auspicious atmosphere.

4. Guest Addresses

Ms. Shruti Shivamurthy (Savishkar Karnataka Representative)

- Highlighted the significance of innovation-driven initiatives in higher education.
- Encouraged students to participate in platforms like Savishkar to showcase ideas and projects.
- Stressed on the role of competitions and collaborations in preparing students for real-world challenges.

Ms. Rohini Nag (Chief Guest)

- Shared her professional journey and experiences in the engineering field.
- Emphasized the transformative role of engineers in building solutions for societal growth.
- Motivated students to develop problem-solving skills, embrace challenges, and contribute meaningfully to the nation's progress.

Dr. Mahesh Kumar (Dean of Student Welfare)

- Delivered an inspiring address to the gathering.
- Spoke about the responsibilities of engineers as future leaders and innovators.
- Stressed the importance of ethics, values, and continuous learning in professional success.
- Appreciated the department for organizing such an event that instils pride in the engineering community.

Mr. Aditya Malur (AI Powered Mentor & Consultant)

Session Title: "AI MEETS YOU: Supercharging Your Skills with the New Age of Intelligence"

- Delivered an engaging and interactive session focused on the intersection of Artificial Intelligence and skill development.
- Highlighted how AI is rapidly transforming industries and redefining traditional career paths.
- Emphasized the need for adaptability, continuous upskilling, and embracing AI as a collaborator rather than a competitor.
- Shared practical insights and examples of AI-driven tools that students can leverage for academic and career growth.
- Motivated students to become contributors in the AI ecosystem rather than passive consumers.

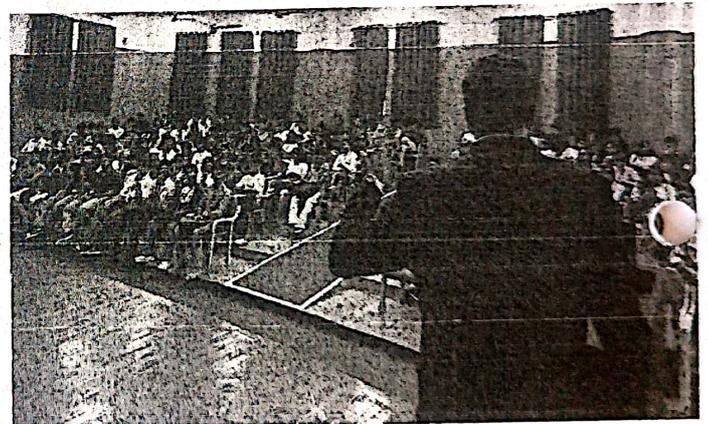
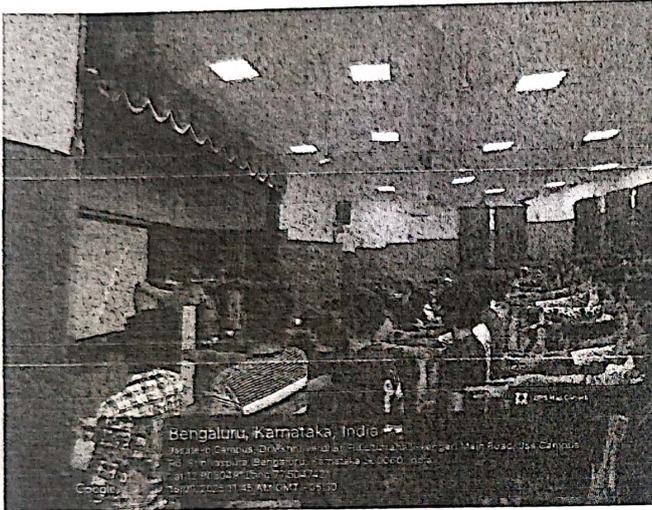
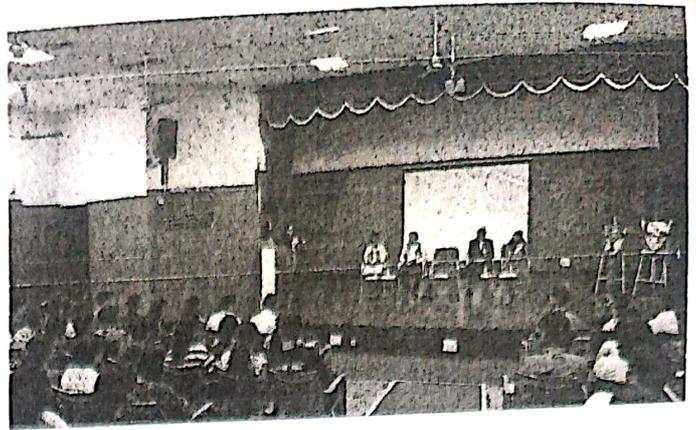
5. Valedictory & Vote of Thanks

- The valedictory session included the presentation of mementos to dignitaries, as a token of gratitude from the department.
- An oath was also taken on account of Engineer's Day.
- The formal Vote of Thanks was proposed by the event coordinator, acknowledging:
 - Chief Guest and Guest Speaker for their inspiring presence.
 - Dean of Student Welfare for his encouragement and guidance.
 - Representatives from Savishkar Karnataka for their support.
 - Faculty members, cultural club contributors, organizing team, and student participants for making the event successful.

6. Conclusion

- The celebration of Engineer's Day by the Department of CSE (AI&ML) was a fitting tribute to Sir M. Visvesvaraya.
- The insightful talks, inspiring words, and interactive sessions created an environment of motivation and learning.
- The event reinforced the significance of engineering as a profession that drives progress, innovation, and social transformation.
- Students expressed enthusiasm and a renewed commitment to pursuing excellence, creativity, and responsibility as future engineers.

Photos:




Coordinator


Signature of HOD
Head of the Department
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
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Dr. Vishnuvardhana Road, Bengaluru - 560089



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Department of Computer Science & Engineering (AI & ML)

Date: 06/12/2025

To
Mr. Manjunatha K R
Global R&D Head
DhiWare Technologies

Subject: Appreciation for Your Contribution as Adjudicator – Open Day 2025

Respected Sir,

On behalf of the Department of Computer Science & Engineering (AI & ML) at JSS Academy of Technical Education, Bengaluru, we extend our heartfelt gratitude for your valuable presence and contribution as an adjudicator for the **Final Year Project Exhibition – “Open Day 2025”**, held on 6th Dec 2025.

Your insights, thoughtful evaluation, and interaction with our students greatly enriched the event and added immense value to their academic experience. Your feedback not only encouraged innovation but also provided them with a deeper understanding of industry expectations and real-world applications.

We deeply appreciate your time and effort in supporting this academic initiative. It was a privilege to have you with us, and we hope to continue this association in the years to come.

A.B.C
5/12/2025

With warm regards,
Dr. Anil B C
Associate Professor & Head
Department of CSE (AI & ML)
JSS Academy of Technical Education, Bengaluru

Head of the Department
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
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Department of Computer Science & Engineering (AI & ML)

Date: 06/12/2025

To
Mr. Arun Velayudhan
Strategic Leader
DhiWare Technologies

Subject: Appreciation for Your Contribution as Adjudicator – Open Day 2025

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A.B.C. 5/12/25

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Associate Professor & Head
Department of CSE (AI & ML)
JSS Academy of Technical Education, Bengaluru

Head of the Department
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
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Department of Computer Science & Engineering (AI & ML)

Date: 06/12/2025

To
Mr. Sharath S J
Software Developer Team Lead
Facile Consulting Software Pvt Ltd

Subject: Appreciation for Your Contribution as Adjudicator – Open Day 2025

Respected Sir,

On behalf of the Department of Computer Science & Engineering (AI & ML) at JSS Academy of Technical Education, Bengaluru, we extend our heartfelt gratitude for your valuable presence and contribution as an adjudicator for the **Final Year Project Exhibition – “Open Day 2025”**, held on 6th Dec 2025.

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Dr. Anil B C 5/12/25
With warm regards,
Dr. Anil B C
Associate Professor & Head
Department of CSE (AI & ML)
JSS Academy of Technical Education, Bengaluru

Head of the Department
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
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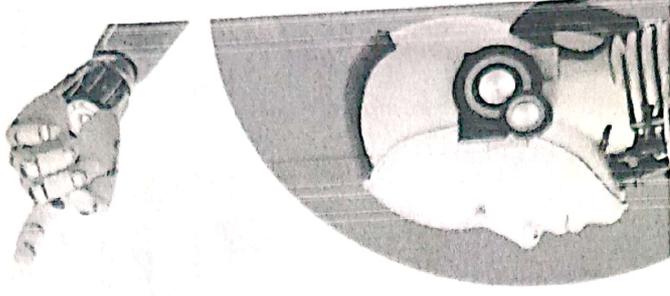
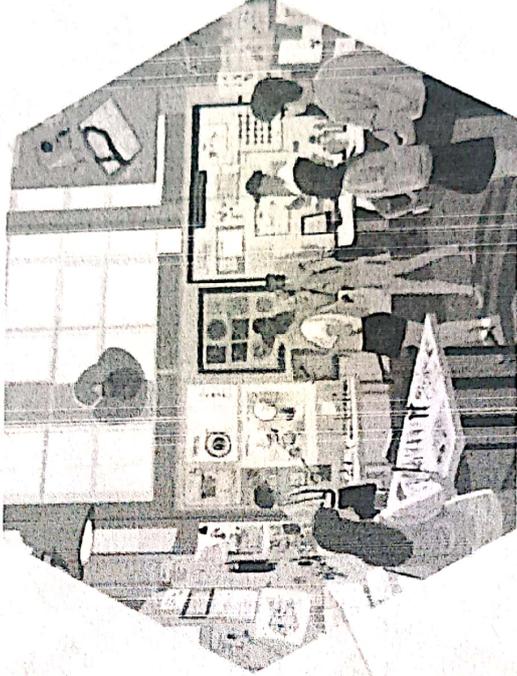


ORGANIZING

PROJECT EXHIBITION OPEN DAY 2025

For VII Semester Students

Top performers will be rewarded



06.12.2025 | 9AM - 2PM

VENUE: ROOM No- A214 & A306, A BLOCK,





JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION, Bengaluru
Department of CSE (Artificial Intelligence and Machine Learning)



Open day project exhibition

Semester: VII

Section: A

Date :- 06/12/2025

SL No.	USN No	Name	Signature
1	1JS22CI001	AARUSH C V	
2	1JS22CI002	ABHISHEK KUMAR SINHA	
3	1JS22CI003	ADITYA R SHARMA	
4	1JS22CI004	AISHWARYA B T	
5	1JS22CI005	AMOGH M G	
6	1JS22CI006	AMRUTHA M	
7	1JS22CI007	AMULYA K R	
8	1JS22CI008	ANAGHA S K	
9	1JS22CI009	ANANYA M	
10	1JS22CI010	ANUMEHA ANAND	
11	1JS22CI011	ARAVIND REDDY N	
12	1JS22CI012	ARUNDHATI	
13	1JS22CI013	ARYAN PRASAD	
14	1JS22CI014	ASHVIJA V M	
15	1JS22CI015	AVINASH C V	
16	1JS22CI016	BHARATH BOJANNA A K	
17	1JS22CI017	BHOOMIKA SUBRAMANYA	
18	1JS22CI018	DHANUSH C M	
19	1JS22CI019	DHANUSH S	
20	1JS22CI020	GAGAN K	
21	1JS22CI021	GOWTHAM N RAO	
22	1JS22CI022	HEMANTH R	
23	1JS22CI023	ISHA S	
24	1JS22CI024	JEEVAN GOWDA K U	
25	1JS22CI025	JESHTA K	
26	1JS22CI026	K S VIGNESH	

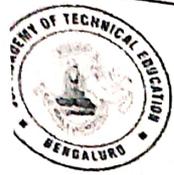
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HOD, CSE (AI&ML)

Head of the Department
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
JSS Academy of Technical Education
D. Vishnuvardhana Road, Bengaluru - 560080



SL No.	USN No	Name	Signature
27	1JS22CI027	KAVYASHREE R	<i>[Signature]</i>
28	1JS22CI028	KEERTHANA H L	<i>Keerthana H L</i>
29	1JS22CI029	KEERTHI DESHPANDE	<i>Keerthi Deshpande</i>
30	1JS22CI030	LAKKI KUNWAR	<i>Lakki Kunwar</i>
31	1JS22CI031	LAKSHMI KANTH V	<i>Lakshmi Kanth V</i>
32	1JS22CI032	LAKSHMI PATIL	<i>Lakshmi Patil</i>
33	1JS22CI033	LAVANYA SREE K ACHAR	<i>Lavanya Sree K Achar</i>
34	1JS22CI034	LEKHAN S	<i>[Signature]</i>
35	1JS22CI035	LOCHAN HOSUR SHIVARAM	<i>[Signature]</i>
36	1JS22CI036	LOHITH ARADHYA S	<i>Lohith Aradhy S</i>
37	1JS22CI037	M VISHNU BHARADWAJ	<i>[Signature]</i>
38	1JS22CI038	MANOJ M	<i>[Signature]</i>
39	1JS22CI039	MUTTURAJ GOUDRA	<i>[Signature]</i>
40	1JS22CI040	N KARTHIK	<i>[Signature]</i>
41	1JS22CI041	NESHA RAMYA RAJ	<i>Nesha Ramya Raj</i>
42	1JS22CI042	PADARTI PARTHIV	<i>[Signature]</i>
43	1JS22CI043	PRAGATHI A M	<i>[Signature]</i>
44	1JS22CI044	PRAJWAL ANANT BHANDAGI	<i>[Signature]</i>
45	1JS23CI405	JAYANTH H	<i>[Signature]</i>
46	1JS23CI402	CHITRA N V	<i>[Signature]</i>
47	1JS23CI401	CHANDANA SURESH DEVADIGA	<i>[Signature]</i>
48	1JS23CI411	VANISHREE PARASANNAVAR	<i>[Signature]</i>
49	1JS23CI403	DHARESH ARLI	<i>[Signature]</i>
50	1JS23CI404	HARSHITHA G	<i>[Signature]</i>
51	1JS23CI409	SHAKTHI S	<i>[Signature]</i>
52	1JS23CI414	YASWANTH G M	<i>[Signature]</i>



JSS MAHAVIDYAPEETHA
JSS ACADEMY OF TECHNICAL EDUCATION, Bengaluru
Department of CSE (Artificial Intelligence and Machine Learning)



Open day project exhibition

Semester: VII

Section: B

Date 06/12/2025

SL No.	USN No	Name	Signature
1	1JS22CI045	PRAKHYATH R	
2	1JS22CI046	PRANJAL ROY	
3	1JS22CI047	PRATHAM P	
4	1JS22CI048	PRATHAM R U	
5	1JS22CI049	PRUTHVIJ VIDYANANDA PRABHU	
6	1JS22CI050	PUNEETH K RAJ	
7	1JS22CI051	R JEEVAN	
8	1JS22CI052	R SUBHASH REDDY	
9	1JS22CI053	R SWETHA	
10	1JS22CI054	RAGHAVA B	
11	1JS22CI055	S K TARINI	
12	1JS22CI056	SADVINI GIRISH K	
13	1JS22CI057	SAGAR	
14	1JS22CI058	SANDESH R PATIL	
15	1JS22CI059	SANJANAA P	
16	1JS22CI060	SANKETH B AMARAVATHI	
17	1JS22CI061	SATWIK SHAHI	
18	1JS22CI062	SHABARISH K M	
19	1JS22CI063	SHASHANKA CHOUDHARY	
20	1JS22CI064	SHASHANKA D C	
21	1JS22CI065	SHASHANKA	
22	1JS22CI066	SHEETHAL BHUSHAN	
23	1JS22CI067	SHIVAM KUMAR VATSA	
24	1JS22CI068	SHREYA KUMARI	
25	1JS22CI069	SHREYA P	
26	1JS22CI070	SHREYAS GOWDA D C	

Head of Department
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Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
JSS Academy of Technical Education
Dr. Vishnuvardhana Road, Bengaluru - 560060

SL No.	USN No	Name	Signature
27	1JS22CI071	SHWETHA A R	<i>Shwetha</i>
28	1JS22CI072	SINCHAN G BIRSAL	<i>Sinchan</i>
29	1JS22CI073	SNEHA BASAVARAJ MASHAL	<i>Sneha</i>
30	1JS22CI074	SOMESH S PATIL	<i>Somesh</i>
31	1JS22CI075	SONIKA TEKUMANI	<i>Sonika</i>
32	1JS22CI076	SOWRABH BHARATH SHETTY	<i>Sowrabh</i>
33	1JS22CI077	SUDHANVAA G M	<i>Sudhanva</i>
34	1JS22CI078	SUJAL H R	<i>Sujal</i>
35	1JS22CI079	SUJAL T	<i>Sujal</i>
36	1JS22CI080	SURABHI B N	<i>Surabhi</i>
37	1JS22CI081	SWAROOP P PAGOJI	<i>Swaroop</i>
38	1JS22CI082	TEJASWINI K REDDY	<i>Tejaswini</i>
39	1JS22CI083	TRISHA U	<i>Trisha</i>
40	1JS22CI084	V CHINMAYE	<i>Chinmaye</i>
41	1JS22CI085	VARUN RUDRUNOOR	<i>Varun</i>
42	1JS22CI086	VEDASHREE G R	<i>Vedashree</i>
43	1JS22CI087	VIJETHA R NATH	<i>Vijetha</i>
44	1JS22CI088	VISHNU PRIYA Y	<i>Vishnu</i>
45	1JS23CI400	BHAVANA Y	<i>Bhavana</i>
46	1JS23CI406	MUTHURAJ S	<i>Muthuraj</i>
47	1JS23CI407	NISHANTH N	
48	1JS23CI408	SARVESH GOWDA L	
49	1JS23CI410	SUDEEP G B	<i>Sudeep</i>
50	1JS23CI412	VIGHNESH M	<i>Vighnesh</i>
51	1JS23CI413	YASHWANTH GOWDA M	<i>Yashwanth</i>



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Department of CSE (Artificial Intelligence & Machine Learning)

A Report on the Workshop

“From Concept to Action: A Practical Guide to AI Agents”

Title: One Day Workshop on “From Concept to Action: A Practical Guide to AI Agents”

Date: 22 November 2025

Organized by: Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning)

Target Participants: III, V & VII Semester Students

Resource Person: Mr. Manjunath S, Principal Engineer, Samsung Electro-Mechanics, World Trade Center, Malleshwaram, Bengaluru

1. Introduction

The Department of CSE (AI & ML) organized a one-day workshop titled “From Concept to Action: A Practical Guide to AI Agents” on 10 November 2025. The workshop aimed to provide students with practical insights into the design, development, and deployment of AI agents—an essential area in modern artificial intelligence.

2. Objectives of the Workshop

- To introduce students to the fundamental concepts of AI agents.
- To explain the architecture, design patterns, and workflows used in building AI agents.
- To demonstrate real-time applications of AI agents in industry.
- To equip students with practical knowledge through demonstrations and examples.
- To motivate students to explore advanced areas of AI and intelligent systems.

3. Workshop Sessions

Session 1: Introduction to AI Agents

- Overview of AI agents and intelligent systems.
- Types of agents: Simple Reflex, Model-Based, Goal-Based, and Learning Agents.
- Real-time use cases across automation, robotics, and decision-making systems.

Session 2: Building AI Agents

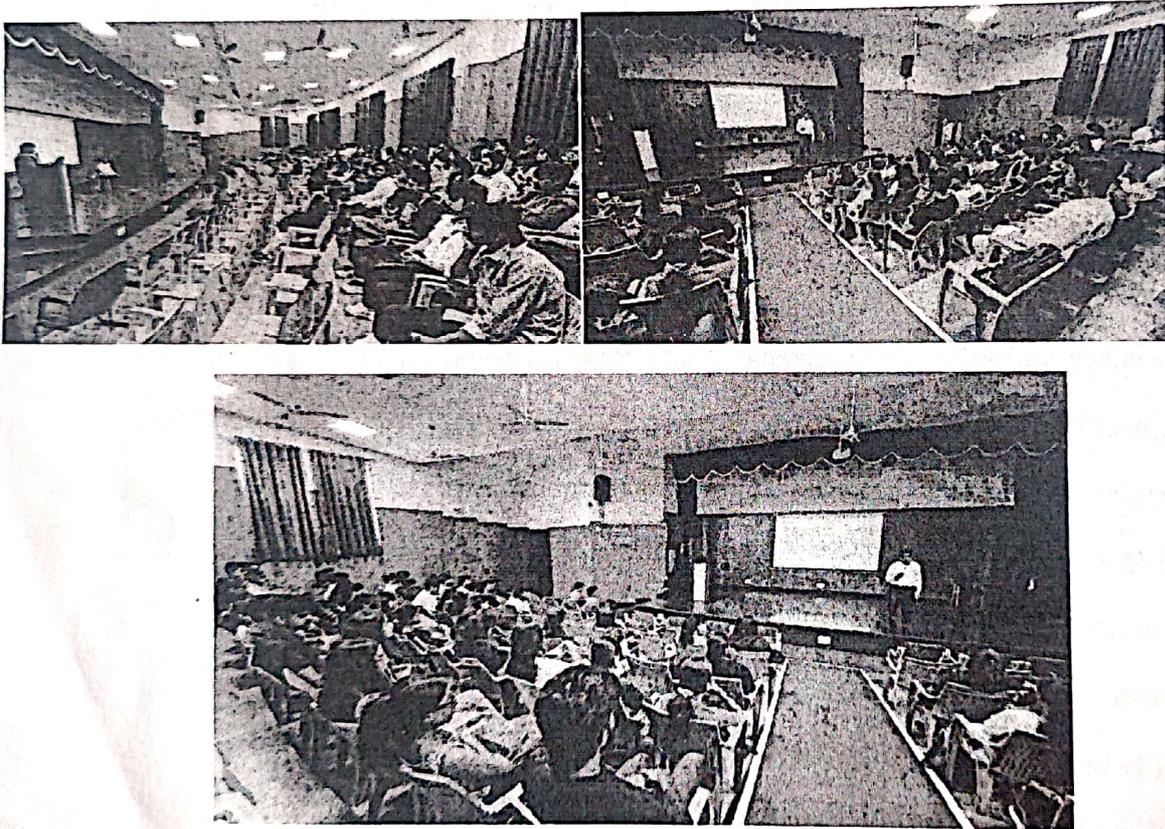
JSSATEB Campus, Dr. Vishnuvardhan Road, Srinivasapura, Bengaluru - 560 060
Phone: 080-2861 2646/2565/1702, Fax: 080-2861 2706, website: www.jssateb.ac.in, Email: principal@jssateb.ac.in



- Design challenges and best practices.
- Tools and platforms used in industry to deploy intelligent agents.
- Live demonstration of sample agent models.
- Walkthrough of the development pipeline—from concept to deployment.
- Hands-on explanation of agent decision loops
- Students discussed queries regarding applications, career paths, and project ideas.
- Speaker provided guidance on current trends in AI and future opportunities.

4. Participation

The workshop saw active participation from III, V, and VII semester students of the CSE (AI & ML) program. Students were highly engaged and participated enthusiastically in discussions and practical demonstrations.

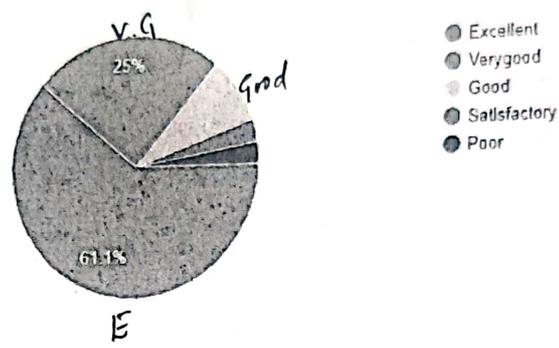


- Students gained a comprehensive understanding of AI agent concepts.
- They were exposed to real-world industry applications and best practices.
- The workshop enhanced students' ability to conceptualize and develop intelligent systems.
- Participants expressed interest in pursuing mini-projects and research in AI agent development.

6. Feedback

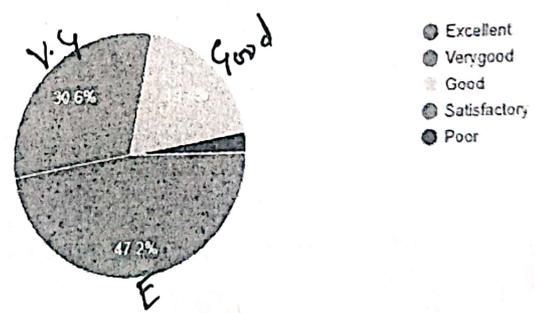
Are you satisfied with the quality of the content

36 responses



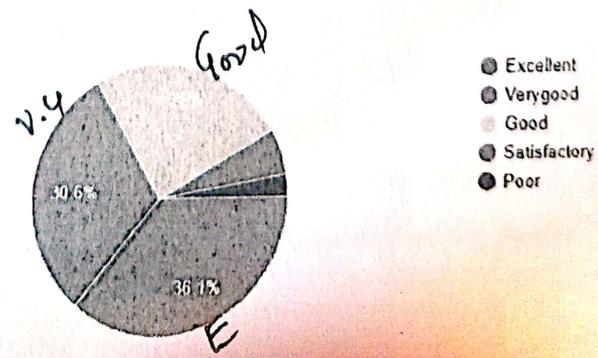
Presentation Skills of Resource Persons

36 responses



Duration of the content/Workshop/Seminar

36 responses



... and industry-relevant insights and motivating.

7. Conclusion

The workshop successfully achieved its objectives. It enriched students' technical understanding and inspired them to explore the field of AI agents further. The department extends its gratitude to Mr. Manjunath S for delivering an impactful and engaging session.


Event coordinators:
Dr. Sreenatha M


HOD CSE(AI&ML)

090090
Head of the Department
Department of Computer Science & Engineering
(Artificial Intelligence & Machine Learning)
JSS Academy of Technical Education
Dr. Vishnuvardhana Road, Bengaluru - 560030



Report

Title: Workshop on Artificial Intelligence Applications in Networking Attacks

Instructor: Mr. Abhishek B V, Security Engineer, WE45 Solutions India Pvt Ltd.

Date: 30/10/2025

Organizers: Department of CSE(AI and ML)

Participants: 5th Semester students & Faculty Members

Total number of participants: 85

1. Executive Summary

This report summarizes a practical, hands-on cybersecurity session led by Mr. Abhishek. The session introduced students to core offensive and defensive tools and platforms used in modern cyber security practice, demonstrated techniques like SQL injection testing and network reconnaissance, and pointed learners to structured training resources (TryHackMe) and governance resources (SBOM guidance). Attendees praised the session as informative and useful for getting started with practical security work.

2. Learning Objectives

- Introduce common open-source tools used in security testing (reconnaissance, exploitation, and web testing).
- Demonstrate automated SQL code testing and common vulnerabilities (SQL injection).
- Provide hands-on exposure to platforms for learning and responsible disclosure (TryHackMe, HackerOne).
- Familiarize students with software component transparency and supply-chain considerations (SBOM).
- Encourage safe, legal, ethical practice and further self-study.

3. Topics & Tools Covered

Tools(Practical)

- **SQLmap** — Automated tool to detect and exploit SQL injection flaws; useful for testing how input is handled and whether parameterization/sanitization is effective.
- **Nmap**—Networks scanning and port discovery tool for reconnaissance.
- **Metasploit** — Exploitation framework for validating vulnerabilities and learning exploitation workflows.
- **Burp Suite (Community Edition)** — Web application proxy for intercepting, manipulating, and testing HTTP(S) traffic.
- **Wireshark**— Packet capture and deep network protocol analysis.
- **Wappalizer** — Browser extension to identify technologies used by websites (useful for reconnaissance).
- **Dir Buster (or similar)** — Directory brute-forcing tools to discover hidden endpoints and files.

Concepts & Platforms

- **Denial of Service (DoS) attack** — Conceptual overview of how DoS works; emphasis on ethics and legal boundaries (demonstrations only in lab or simulated environments).
- **TryHackMe** — Guided, gamified online labs for learning cybersecurity fundamentals and practice in a safe environment.
- **HackerOne (for Hackers)** — Introduction to responsible disclosure, bounty programs, and how to report/find real-world vulnerabilities ethically.
- **SBOM Guide 2025 (OPSWAT)** — Overview of Software Bill of Materials best practices and how SBOMs turn compliance into a security asset (supply-chain security).
- **SQL Injection** — Explanation of attack vectors, demonstration references (e.g., blog posts and HackerOne write-ups) and four prevention strategies (input validation, prepared statements, least privilege, parameterized queries).

4. Practical Session Highlights

- **Hands-on demos:** Using SQLmap to automate detection of SQL injection points; intercepting requests in Burp Suite; scanning targets with Nmap and analyzing packet captures with Wireshark.
- **Tool installation & verification:** Participants confirmed installations (Burp Suite Community Edition, Wappalyzer, Wireshark) and tried simple workflows.
- **Ethical framing:** Emphasis on executing any tests only in authorized, lab-controlled environments such as TryHackMe rooms or college-hosted labs.

5. Key Take a ways for Students

- Open-source tools like SQLmap, Nmap, Metasploit, Wireshark, and DirBuster enable effective learning but must be used responsibly.
- TryHackMe is a strong starting point to translate theoretical knowledge into practical skills safely.
- Understanding SBOMs and supply-chain visibility is becoming essential for modern security practices.
- Responsible disclosure platforms (HackerOne) provide real-world channels to practice and contribute while staying within legal/ethical boundaries.
- Preventive measures (e.g., prepared statements, input validation, least privilege) are practical and essential to mitigate SQL injection and similar issues.

6. Recommendations

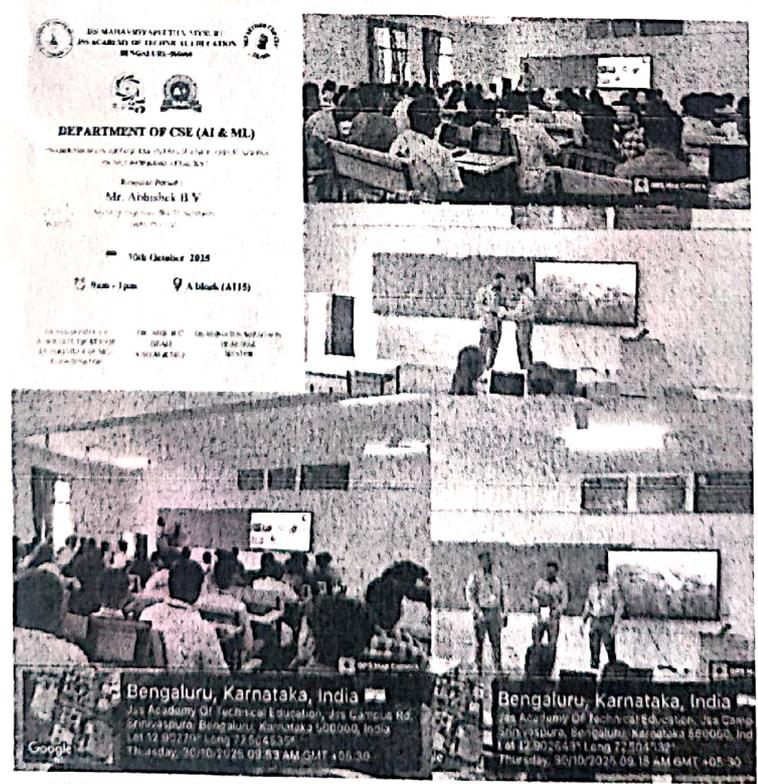
1. **Follow-up labs:** Organize structured TryHackMe paths (Beginner Web Hacking, Linux Fundamentals, Network Fundamentals) as coursework or weekly challenges.
2. **Create a lab environment:** Provide VM or container-based labs where students can safely use Metasploit, SQLmap, and DoS simulations without legal risk.
3. **SBOM awareness:** Integrate a short module on SBOMs and supply-chain security (use the OPSWAT SBOM Guide 2025 as reference material).
4. **Capture and report:** Ask students to document one lab exercise and submit a short write-up (tools used, commands, findings, and prevention steps) to reinforce learning.
5. **Ethics & disclosure training:** Provide a primer on responsible disclosure and legal/ethical boundaries before any offensive tooling is taught.

7. Suggested Lab Exercises(Beginner→Intermediate)

- **Beginner:** Set up a TryHackMe room and complete the Getting Started path; identify vulnerable input and explain mitigation.
- **Intermediate 1:** Use SQLmap against a deliberately vulnerable lab target; document the payload used and remediation.
- **Intermediate 2:** Perform Nmap reconnaissance and use Wireshark to capture and analyze a simple HTTP exchange.
- **Advanced:** Simulate a web app test using Burp Suite to find and responsibly report a low-severity issue to an instructor-run bug bounty program.

References& Further Reading(mentionedduringthesession)

- TryHackMe—Getting Started
- OPSWAT—SBOMGuide2025
- Wireshark—official downloads and documentation
- GitHub—microsoft/sbom-tool
- Burp Suite Community Edition—Port Swigger
- Wappalyzer—installation notes
- GitHub—darksage/dirbuster(andsimilardirectorybrute-forcingtools)
- HackerOne—guidesforhackersandwrite-ups(includingSQLInjectioncasestudies)



Feedback Analysis

Presentation Skills of Resource Persons

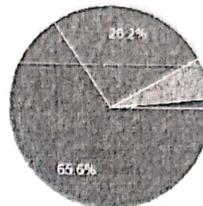
61 responses



- Excellent
- Verygood
- Good
- Satisfactory
- Poor

Are you satisfied with the quality of the content

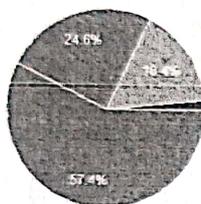
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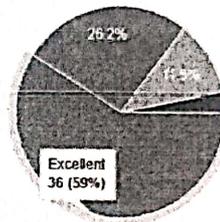
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Did the event meet your expectations

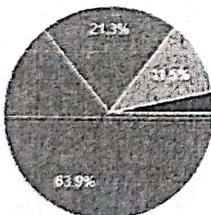
61 responses



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- Poor

How would you rate all sessions

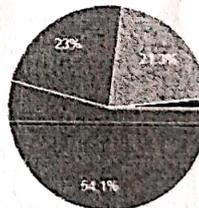
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Organization of The Workshop/Seminar

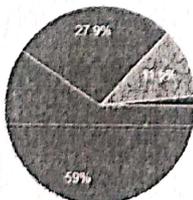
61 responses



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How satisfied are you with the event

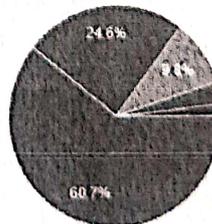
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Significance of Workshop/Seminar

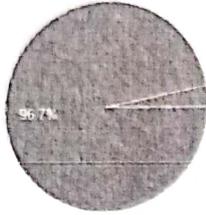
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- Excellent
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Do you think the event met its goal

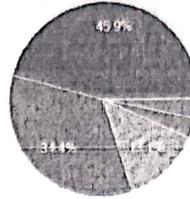
61 responses



- Yes
- No

How educational did you find this seminar

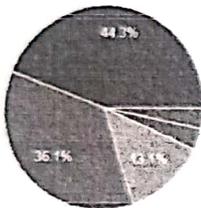
61 responses



- Not at all
- Slightly
- Moderately
- Very
- Extremely

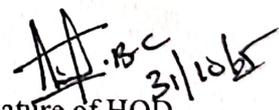
How applicable was the information provided

61 responses



- Not at all
- Slightly
- Moderately
- Very
- Extremely


Signature of Coordinator
(Dr. Jayasimha S R)


Signature of HOD
(Dr Anil B C)
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