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SCHOOL OF ENGINEERING

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Department of Computer Science and Engineering (AI&DS)

CODESANKET CLUB

ACTIVITY REPORT

Academic Year 2025–26

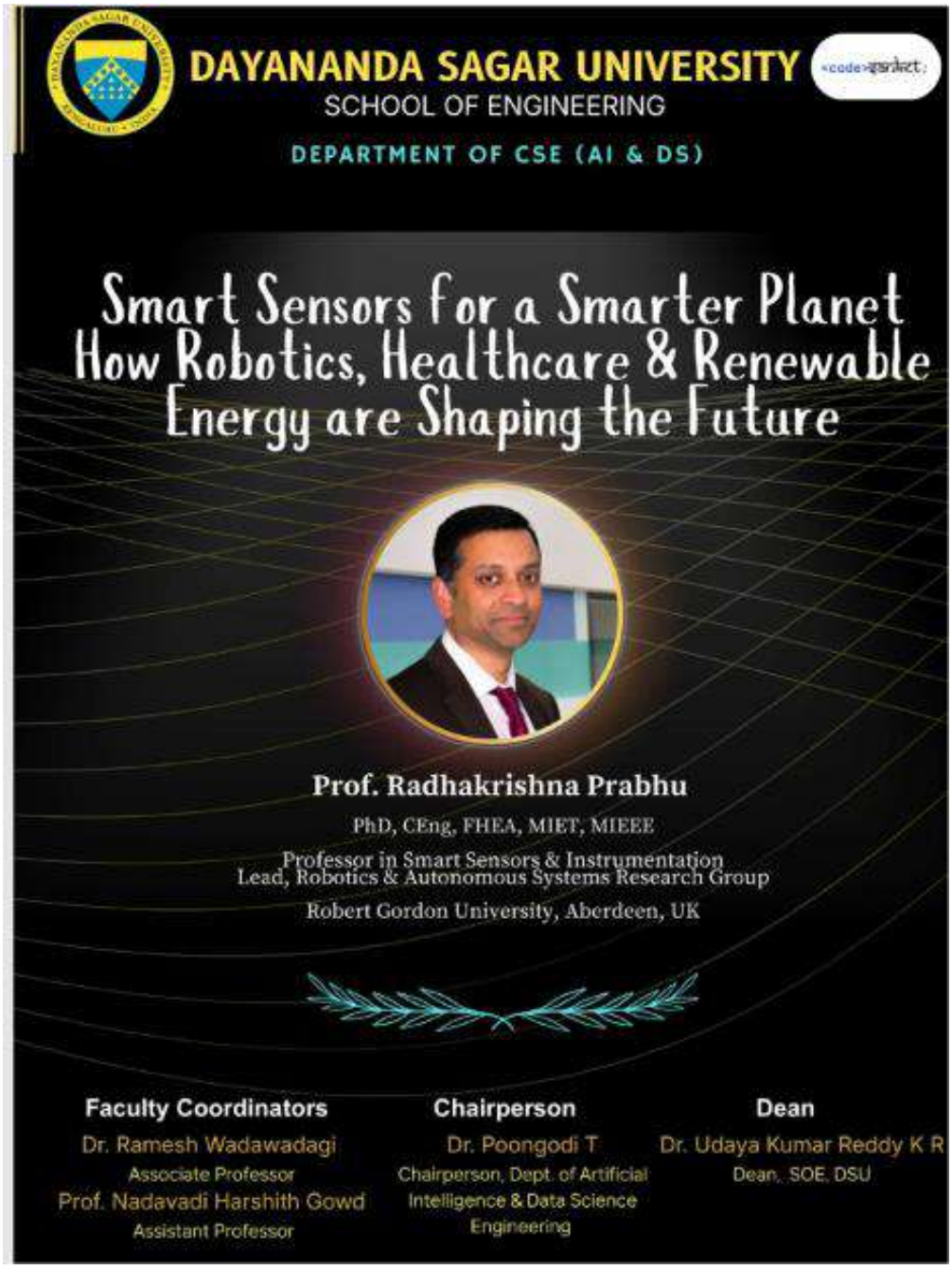
Department of Computer Science and Engineering
(Artificial Intelligence & Data Science)
School of Engineering, Dayananda Sagar University

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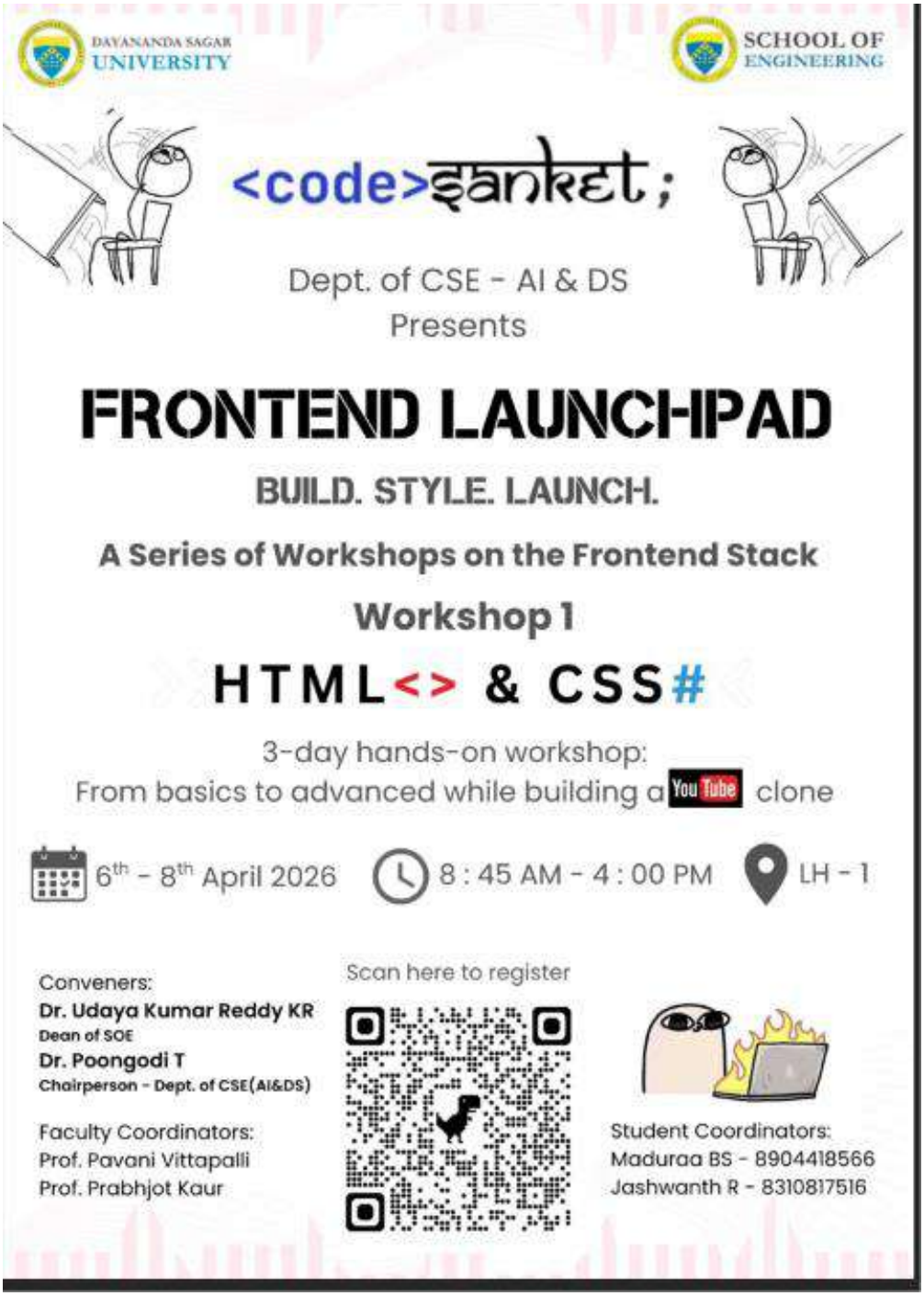


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Technical Learning • Emerging Technologies • Innovation • Projects • Industry Exposure

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1. Report Overview

This report consolidates the activities documented for the Department of CSE (AI & DS) during the academic year 2025–26, with emphasis on the learning, innovation, technology, project-oriented and outreach activities associated with the CodeSanket Club ecosystem. The supplied event record includes expert talks, seminars, hands-on workshops, innovation activities, cybersecurity awareness and community-oriented learning.

The report is prepared from the event-details document supplied for this purpose. Event names, dates, resource persons, objectives, outcomes, coordinators and visual evidence are retained from the source wherever available. Some activities in the source are described as departmental or NSS activities rather than explicitly as CodeSanket-organised events; they are therefore presented here as documented departmental activities contributing to the broader student-engagement portfolio.

2. Club Activity Focus

- Technical learning and expert interaction in AI, Data Science, statistics, sensors and related technologies.
- Innovation, creative problem-solving and transformation of ideas into prototypes or practical solutions.
- Hands-on skill development through coding and frontend development workshops.
- Awareness of emerging technology domains such as cybersecurity, smart sensors and digital services.
- Application of AI and Data Science knowledge to real-world and community contexts.
- Student leadership, teamwork, presentation skills, research awareness and industry-oriented exposure.

Department Club Activities – Alignment with Recommended Framework

The department has established a two-club structure aligned with the recommended approach of initiating department-specific clubs/chapters with innovative names and themes relevant to Artificial Intelligence and Data Science. The clubs are designed to provide complementary platforms for technical learning, emerging technologies, innovation, projects, competitions and industry-oriented exposure.

Club Structure

Club / Chapter	Theme	Activity Orientation	Evidence / Planned Activities
CodeSanket Club	AI, Data Science, emerging technologies and practical technical learning	Expert talks, technical workshops, emerging technology awareness, hands-on learning and innovation	Smart Sensors expert talk; Frontend Launchpad; planned 3-day LLM Workshop (12–14 October 2026)
Tech Vedas – Technical Club	Technical innovation, project development and competitive problem-solving	Hackathons, project building, teamwork, mentoring, competitions and technical demonstrations	Planned 36-Hour Hackathon; date to be finalised

How the Clubs Address the Recommended Focus Areas

- Technical learning: CodeSanket activities include expert-led and hands-on technical learning, while Tech Vedas is positioned for intensive project-based technical development.
- Emerging technologies: CodeSanket provides a platform for topics such as smart sensors, Generative AI and the planned Large Language Model workshop.
- Innovation: The department's documented INNOVISION activity and the planned Tech Vedas hackathon provide opportunities for students to generate and develop original ideas.
- Projects and practical exposure: Frontend Launchpad and the planned hackathon emphasise building, testing and presenting practical solutions.
- Competitions: The INNOVISION event included team participation, judging criteria and a prize pool; the planned hackathon will add an intensive competitive project-development format.
- Industry-oriented exposure: Expert interactions and technology-focused sessions expose students to current applications, research perspectives and practical problem contexts.
- Student engagement: The two-club structure provides multiple participation formats, including workshops, expert talks, innovation events, hackathons and project demonstrations.

Suggested Positioning of the Two Clubs

CodeSanket Club may be positioned as the department's AI/Data Science and emerging-technology learning club, with emphasis on expert talks, workshops, Generative AI/LLM learning, applied technology and technical skill development.

Tech Vedas may be positioned as the department's technical innovation and project-development club, with emphasis on hackathons, competitions, collaborative problem-solving, prototyping and project demonstrations.

3. Activity Snapshot

Academic year	2025–26
Department	CSE (Artificial Intelligence & Data Science), School of Engineering
Institution	Dayananda Sagar University
Activities documented	9
Core themes	Technical talks, seminars, innovation, workshops, cybersecurity, community engagement
Evidence	Posters, event photographs and event descriptions from the supplied source document

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Department of Computer Science and Engineering (AI&DS)

ACTIVITY 01

Mastering Statistics & Probability Using MATLAB

Date	26th & 27th September 2025
Time	Friday: 2:00 PM–4:20 PM; Saturday: 9:30 AM–12:30 PM
Venue	PS205
Resource Person	Prof. Natarajan Venkateswaran, Professor of Practice, CSE, DSU

About the Activity

The Department of CSE (AI & DS) organised a Technical Expert Talk on “Mastering Statistics & Probability Using MATLAB.” The session aimed to provide practical insights into statistics and probability using MATLAB, together with real-world applications in Data Science, Artificial Intelligence and engineering.

Key Highlights / Learning Outcomes

- Computational Modelling and Simulation
- Artificial Intelligence and Machine Learning Applications
- Digital Transformation
- 3D Generative AI Technologies
- The resource person brought over 31 years of industrial R&D experience and had worked with organisations including GE R&D, Reliance, CEAT Tyres and CMG Canada.

Visual Evidence

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Department of Computer Science and Engineering (AI&DS)

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DAYANANDA SAGAR UNIVERSITY

Devarakaggalahalli, Harohalli, Kanakapura Road, Bengaluru South District-562112, Karnataka

SCHOOL OF ENGINEERING

Department of Computer Science and Engineering
(ARTIFICIAL INTELLIGENCE AND DATA SCIENCE)

TECHNICAL EXPERT TALK ON

Mastering Statistics & Probability using MATLAB

Resource Person



Prof. Natarajan Venkateswaran
Professor of Practice, CSE, DSU

- 31+ years in Industrial R&D (India & abroad)
- Worked with GE R&D, Reliance, CEAT Tyres, CMG Canada
- Ph.D. in Chemical Engineering (Univ. of Calgary, Canada)
- Expertise: Computational Modelling, Simulation, AI & ML Applications, Digital Transformation, and Generative AI Technologies

Date & Time
26th & 27th Sep, 2025
Fri: 2:00 - 4:20 P.M.
Sat: 9:30 - 12:30 P.M.

Patrons

Dr. B S Satyanarayana, Vice Chancellor, DSU
Dr. Prakash S, Pro Vice Chancellor, DSU
Dr. Puttamadappa, Registrar, DSU
Dr. Udaya Kumar Reddy K R, Dean, SOE, DSU

Convenor

Dr. Poongodi T, Chairperson, CSE(AI&DS)

Student Coordinators

Mohit Deokar, 3rd Sem, CSE(AI&DS), DSU
Rishitha Poornima S, 3rd Sem, CSE(AI&DS), DSU
Maduraa B S, 3rd Sem, CSE(AI&DS), DSU
Mayurika Das, 3rd Sem, CSE(AI&DS), DSU
Shreya Nagamma S, 3rd Sem, CSE(AI&DS), DSU

Faculty Coordinators

Dr. Rakesh Kumar Singh, Assistant Professor, Department of Mathematics
Prof. Sumy Joseph, Assistant Professor, CSE
Prof. Mohith Kumar R, Assistant Professor, CSE

Venue
PS205



Why Attend?

- Gain **hands-on experience** with MATLAB for real-world applications.
- Learn from an industry expert.
- Discover how MATLAB is used in AI and Data Science.

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Department of Computer Science and Engineering (AI&DS)

Event poster

ACTIVITY 02

Digital Literacy Awareness and Skill Development Drive

Date	14th November 2025
Location	Harohalli and nearby community locations
Nature	Departmental NSS activity / community outreach
Faculty	Dr. Poongodi; Prof. Nadavadi Harshith Gowd; Prof. Mohith Kumar; Prof. Sumy Joseph
Student Coordinators	Aditya Ashok Naik, Tejas, Koushik, Aditya Sevanth

About the Activity

On November 14, 2025, the Department of CSE (AI & DS) conducted its first-ever departmental NSS activity, a Digital Literacy Awareness and Skill Development Drive for school children in Harohalli. The initiative combined digital literacy sessions with confidence-building activities for young learners.

Key Highlights / Learning Outcomes

- Basic computer knowledge, safe internet and mobile practices, and identifying misinformation.
- Introduction to Diksha, SWAYAM, YouTube Education, UPI, DigiLocker and e-Governance tools.
- Interactive activities covering communication, teamwork, typing basics and logical thinking.
- “My Dream” drawing activity followed by student sharing to build confidence.
- Outcome: strong student-volunteer coordination, increased confidence among children and an enthusiastic community response.

Visual Evidence

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Students during the community outreach activity

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Group photograph at the school/community location

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ACTIVITY 03

Role of Intellectual Property Rights (IPR) in Research and Entrepreneurship

Date	24th November 2025 (as shown on the event poster)
Department	CSE (AI & DS)
Nature	Seminar on research, IPR and entrepreneurship

About the Activity

The department organised a seminar on the Role of Intellectual Property Rights (IPR) in Research and Entrepreneurship, aimed at building student awareness of IPR concepts and their relevance to academic and entrepreneurial pursuits.

Key Highlights / Learning Outcomes

- Awareness of fundamental concepts of Intellectual Property Rights.
- Understanding the role of IPR in promoting high-quality research.
- Awareness of legal and ethical issues related to IPR.
- Understanding how IPR can support funding, technology transfer and entrepreneurship.
- Learning about plagiarism, originality, legal protection mechanisms and the patent filing process.
- Ability to identify protectable ideas and inventions.

Visual Evidence

SCHOOL OF ENGINEERING

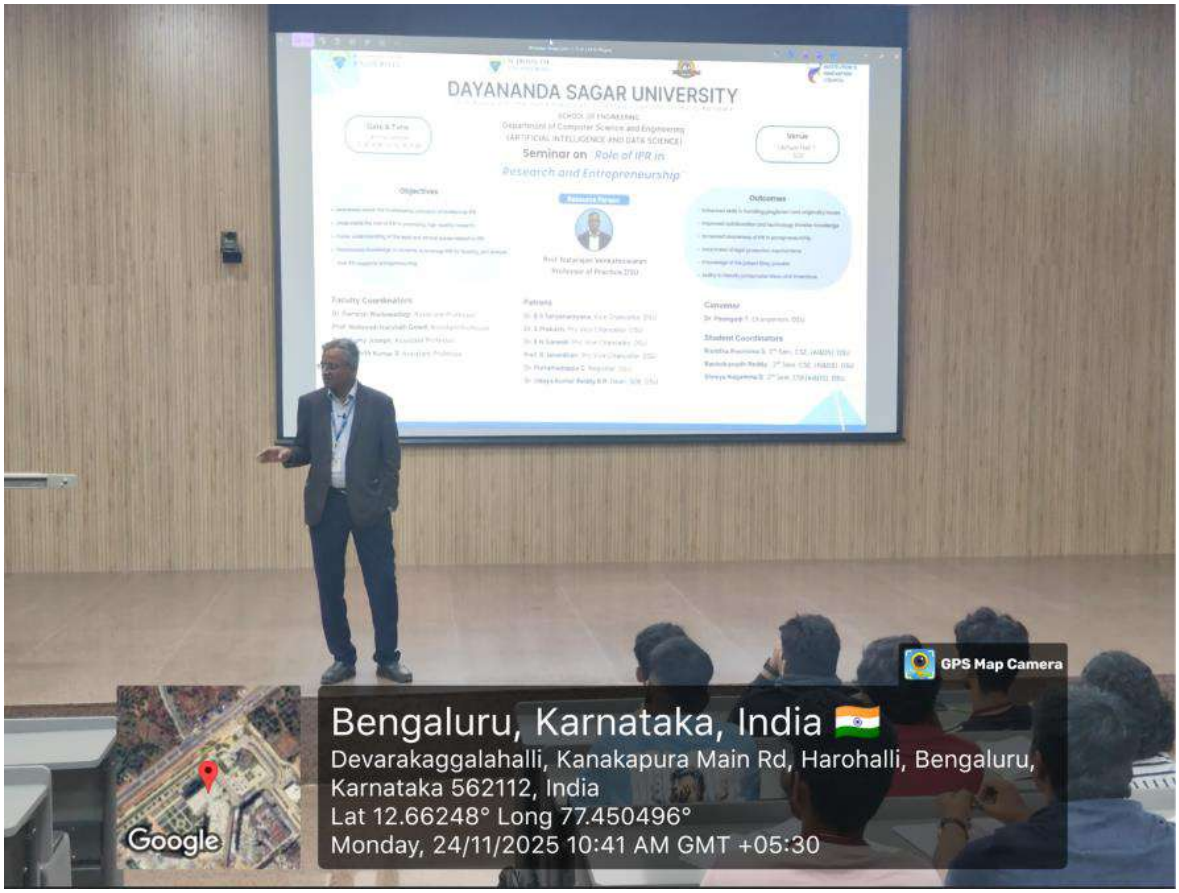
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Event poster



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Department of Computer Science and Engineering (AI&DS)

Seminar session

ACTIVITY 04

Smart Sensors for a Smarter Planet

Date	25th November 2025
Time	11:00 AM
Venue	Lecture Hall-1, DSU
Organised by	CodeSanket Club, Department of CSE (AI & DS)
Speaker	Prof. Radhakrishna Prabhu, Robert Gordon University, Aberdeen, UK

About the Activity

The CodeSanket Club organised a talk on smart sensor technologies and their transformative role across robotics, healthcare and renewable energy. The session brought an internationally recognised researcher to share insights at the intersection of sensing, autonomy and sustainability.

Key Highlights / Learning Outcomes

- Cutting-edge smart sensor technologies and their future applications.
- Practical applications in robotics, healthcare and renewable energy.
- Exposure to global collaboration and applied research opportunities.
- Interactive discussion and professional networking.
- Speaker profile: Professor in Smart Sensors & Instrumentation and Lead, Robotics & Autonomous Systems Research Group, Robert Gordon University, Aberdeen, UK.

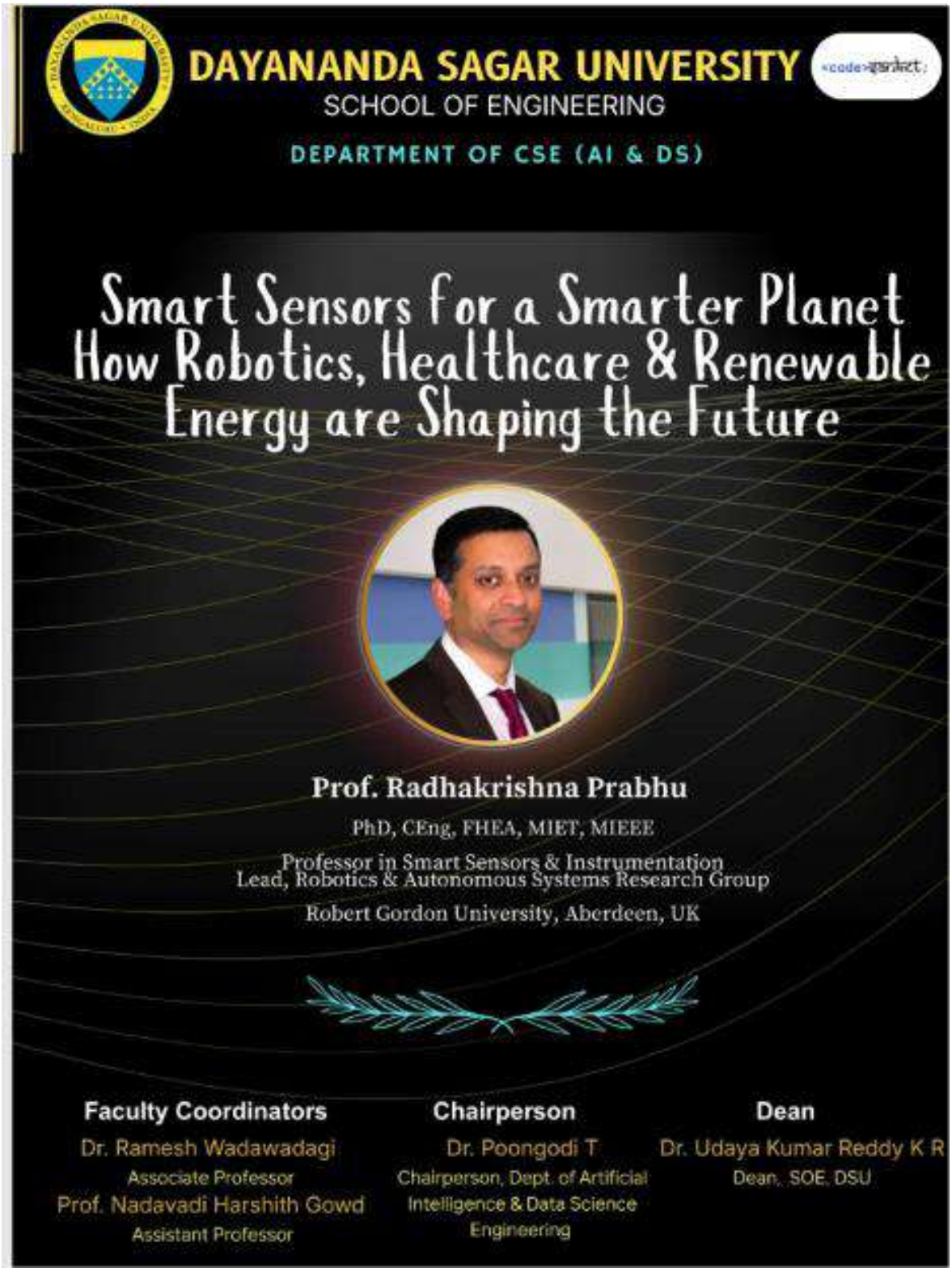
Visual Evidence

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Department of Computer Science and Engineering (AI&DS)

Official event poster



Speaker and participants

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ACTIVITY 05

Sustainable Agriculture Awareness Survey

Date	4th February 2026
Time	1:30 PM–4:00 PM
Nature	NSS activity organised by the Department of Student Affairs
Locations	Gabbadi, Kaggalahalli and Allimaranahalli

About the Activity

The Department of CSE (AI & DS) actively participated in a Sustainable Agriculture Awareness Survey under NSS. Students interacted with farmers, collected structured survey data and promoted environmentally sustainable farming practices.

Key Highlights / Learning Outcomes

- Farmer interaction on cultivation, irrigation, fertiliser and pesticide usage and agricultural challenges.
- Survey data collection covering soil health, crop rotation, water conservation, climate impacts and government support schemes.
- Awareness sharing on organic manure, natural farming, efficient water usage and drip irrigation.
- AI & Data Science applications discussed: crop-yield prediction, agricultural resource optimisation, smart agriculture and sustainable rural development.
- Learning outcomes included field exposure, communication and teamwork, environmental responsibility and understanding the role of technology in community development.

Visual Evidence

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Department of Computer Science and Engineering (AI&DS)



Students during the sustainable agriculture survey

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ACTIVITY 06

INNOVISION – Turning Vision into Innovation

Date	5th March 2026
Venue	Lecture Hall 1
Team Size	3–5 members
Topics	Spot-on topics and own ideas
Prize Pool	₹6,000: First ₹3,000; Second ₹2,000; Third ₹1,000

About the Activity

INNOVISION – Turning Vision into Innovation was an innovative event organised by the Department of CSE (AI & DS), School of Engineering, DSU. It encouraged creative thinking, problem-solving and innovative ideas addressing real-world challenges through teamwork and presentation.

Key Highlights / Learning Outcomes

- Creative thinking and problem-solving.
- Generation of innovative ideas for real-world challenges.
- Team-based participation and presentation of original ideas.
- Judging based on impact, innovation, feasibility and presentation.
- One idea per team; no plagiarism; judges' decision final.
- Certificates were provided to all participants.

Visual Evidence

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INNOVISION event poster



Student presentation

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Participants and organisers

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ACTIVITY 07

From Idea to Reality: Master the Art of Prototype Building in Product Development

Date	9th March 2026
Time	2:45 PM–4:00 PM
Venue	Lecture Hall 2, School of Engineering
Resource Person	Dr. K. Sudheendra Rao, Associate Professor, Department of ECE, DSU
Convenor	Dr. Poongodi T, Chairperson, CSE (AI & DS)

About the Activity

The department organised a technical seminar on prototype building in product development. The session focused on transforming innovative ideas into functional prototypes through design, testing and iterative improvement.

Key Highlights / Learning Outcomes

- Understanding the role of prototyping in product development.
- Translating ideas into structured design concepts.
- Applying rapid prototyping techniques and tools.
- Evaluating and iterating prototypes using testing and feedback.
- Optimising cost, time and resources in prototype development.
- Expected learning included low- and high-fidelity prototyping, prototype testing and iterative product improvement.

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Official seminar poster

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Seminar participants

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ACTIVITY 08

Frontend Launchpad – Workshop 1: HTML & CSS

Date	6th–8th April 2026
Time	8:45 AM–4:00 PM
Venue	Lecture Hall 1 (LH-1)
Topic	HTML & CSS
Duration	3 Days
Series	Build. Style. Launch.

About the Activity

Frontend Launchpad – Workshop 1: HTML & CSS was presented by the Department of CSE (AI & DS) under the workshop series “Build. Style. Launch.” The three-day hands-on workshop introduced frontend web development from fundamentals to advanced concepts, with participants guided to build a YouTube clone.

Key Highlights / Learning Outcomes

- Three-day hands-on learning experience.
- HTML and CSS fundamentals progressing to advanced frontend concepts.
- Practical website development activities and interactive coding sessions.
- Project-based learning through a YouTube clone.
- Learning outcome: foundational practical skills to create and style web pages using HTML and CSS.
- The event poster carries the CodeSanket Club branding, linking the activity to the club’s student-facing technical engagement.

Visual Evidence

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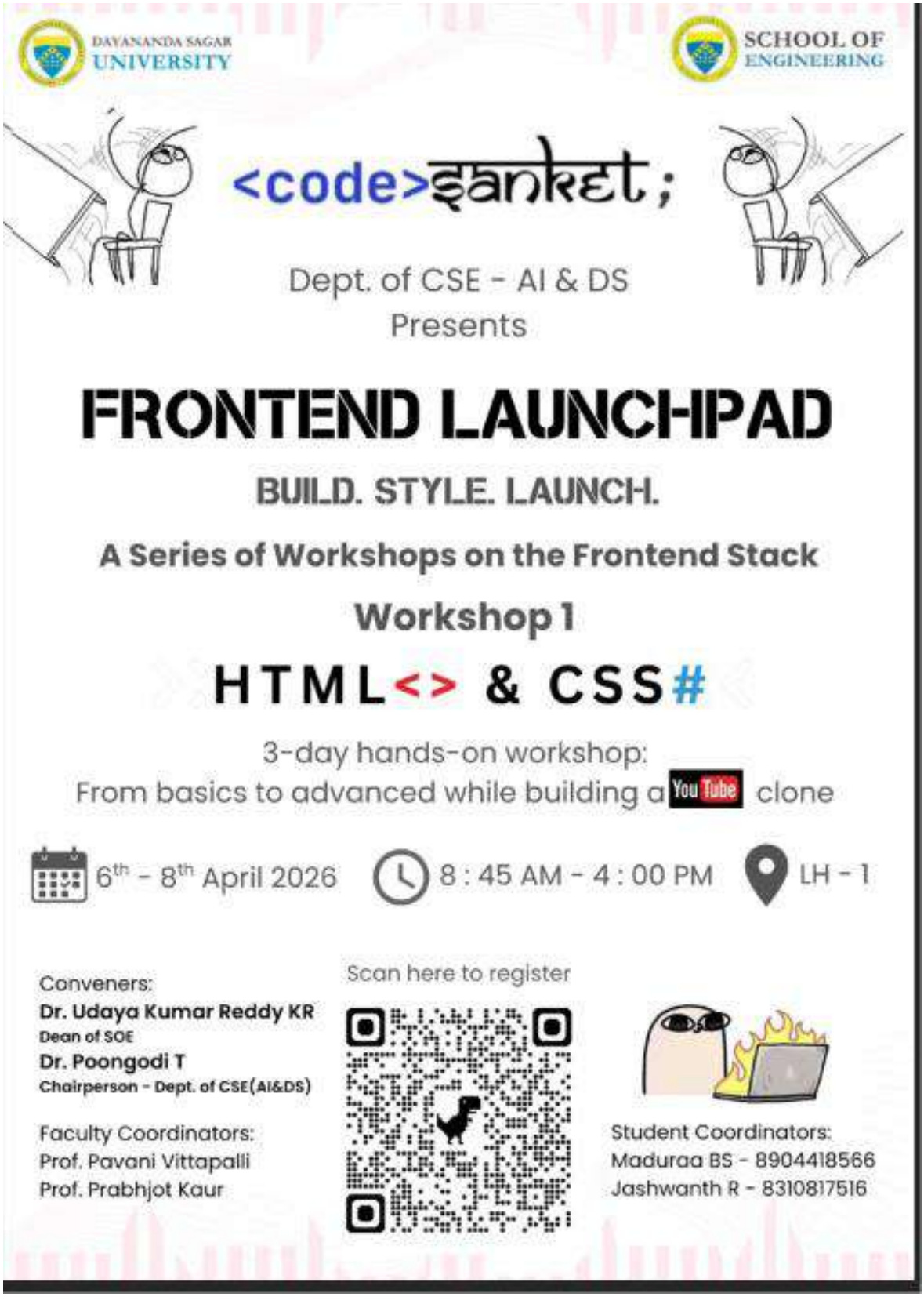
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Department of Computer Science and Engineering (AI&DS)

Frontend Launchpad event poster



Workshop participants

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Department of Computer Science and Engineering (AI&DS)

ACTIVITY 09

Cyber Innovation & Cyber Crime Investigation – Awareness and Motivation Session

Date	27th April 2026
Audience	4th semester students
Department	CSE (AI & DS)

About the Activity

The Department of CSE (AI & DS) organised an Awareness and Motivation Session on Cyber Innovation & Cyber Crime Investigation for 4th semester students. The session highlighted emerging opportunities in cybersecurity and showcased the achievement of Team Nebula, encouraging students to engage actively in innovation and research.

Key Highlights / Learning Outcomes

- Awareness of emerging opportunities in cybersecurity.
- Exposure to cyber innovation and cyber crime investigation themes.
- Motivation through a student achievement showcase featuring Team Nebula.
- Encouragement for students to participate in innovation and research.

Visual Evidence



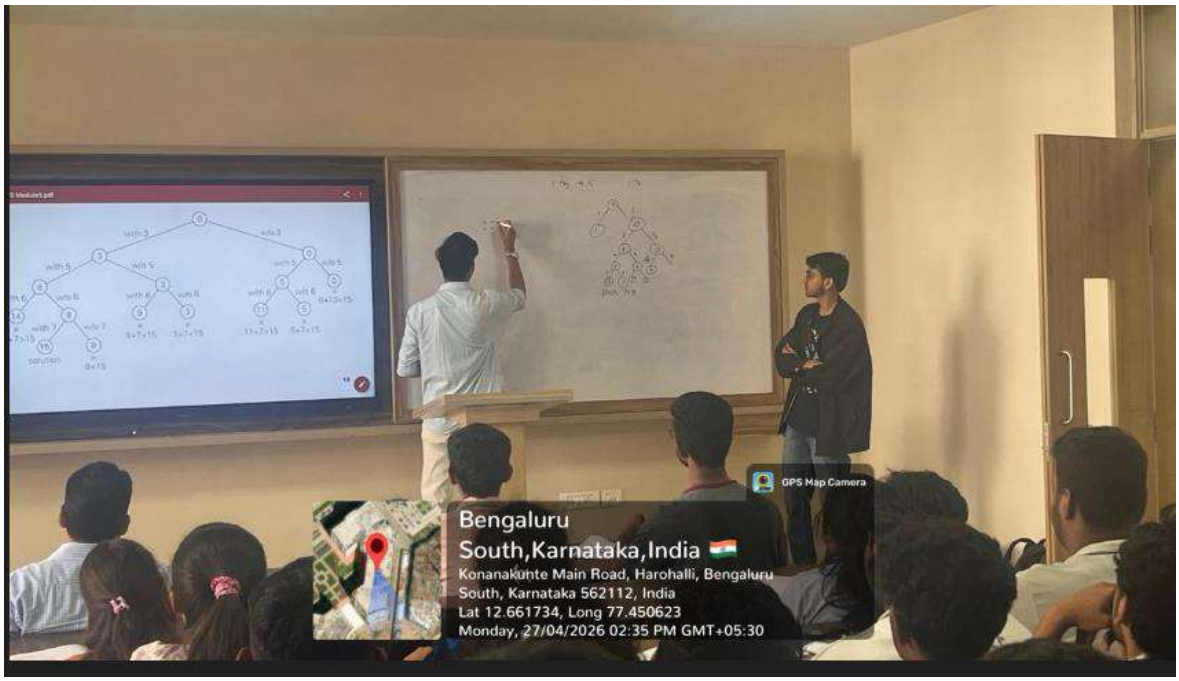
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Department of Computer Science and Engineering (AI&DS)

Student audience during the session



Students presenting/engaging with the session

4. Consolidated Impact of the Activity Portfolio

- Technical exposure: students interacted with experts and gained exposure to statistics and probability using MATLAB, smart sensors, prototyping, frontend development and cybersecurity.
- Innovation orientation: activities such as INNOVISION and prototype-building encouraged students to convert ideas into structured solutions and present them effectively.
- Hands-on learning: the Frontend Launchpad workshop emphasised practical coding, website development and project-based learning.
- Research and entrepreneurship awareness: the IPR seminar strengthened understanding of originality, patents, legal protection and technology transfer.
- Real-world application: the sustainable agriculture survey connected AI and Data Science concepts with field data collection, pattern identification and smart agriculture possibilities.
- Community engagement: the digital literacy drive developed student leadership while extending digital awareness and confidence-building activities to school children.
- Student engagement: the documented activities provided multiple formats—expert talks, seminars, workshops, competitions, field activities and awareness sessions—to encourage participation beyond regular classroom learning.

5. Conclusion

The documented 2025–26 activity portfolio demonstrates a broad student-engagement framework for the Department of CSE (AI & DS), covering technical learning, innovation, project development, emerging technologies, research awareness, cybersecurity and community-oriented applications. The CodeSanket Club's explicitly identified activities—particularly the Smart Sensors expert talk and the CodeSanket-branded Frontend Launchpad initiative—fit directly within the club's stated focus on technical learning and emerging technologies. Together with the wider departmental activities recorded in the source, the portfolio provides evidence of practical exposure, interdisciplinary interaction, student leadership and innovation-oriented learning during 2025–26.

6. Source and Documentation Note

This report has been prepared exclusively from the supplied "Event Details for the Academic Year 2025–26" document for the Department of CSE (AI & DS). The photographs and posters embedded in that source have been reproduced in this report as visual evidence of the documented activities. Where a specific event is not explicitly attributed to CodeSanket Club in the source, the report retains its departmental/NSS description rather than adding an unsupported organiser attribution.

7. Planned Club Activities – Upcoming Semester

In addition to the activities already conducted during Academic Year 2025–26, the Department of CSE (AI & DS) proposes the following club-led activities for the upcoming semester. These activities are intended to strengthen hands-on technical learning, innovation, project development and competitive technical exposure.

Sl. No.	Club	Planned Activity	Proposed Date / Duration	Focus Area
1	CodeSanket Club	LLM Workshop	12th–14th October 2026 3 Days	Large Language Models, Generative AI, hands-on learning and practical applications
2	Tech Vedas – Technical Club	36-Hour Hackathon	Date to be finalised 36 Hours	Innovation, problem-solving, teamwork, project development and competitive technical exposure

7.1 CodeSanket Club – LLM Workshop

The CodeSanket Club is planning to organise a three-day hands-on workshop on Large Language Models (LLMs) from 12th to 14th October 2026. The workshop will provide students with practical exposure to LLM concepts, emerging Generative AI technologies and application-oriented learning.

- Proposed dates: 12th, 13th and 14th October 2026.
- Duration: 3 days.
- Club: CodeSanket Club, Department of CSE (AI & DS).
- Core focus: Large Language Models (LLMs) and Generative AI.
- Expected emphasis: hands-on technical learning, experimentation and development of practical LLM-based applications.
- Expected benefit: stronger understanding of Generative AI workflows and confidence in building AI-enabled solutions.

7.2 Tech Vedas – 36-Hour Hackathon

The Technical Club, Tech Vedas, is planning to organise a 36-hour hackathon during the semester. The hackathon will provide an intensive platform for students to identify problems, develop innovative solutions, collaborate in teams and present working prototypes or project outcomes.

- Club: Tech Vedas – Technical Club, Department of CSE (AI & DS).
- Duration: 36 hours.
- Proposed date: To be finalised.
- Core focus: innovation, problem-solving, teamwork and project development.
- Expected activities: problem identification, ideation, development, testing, mentoring and final presentation/demo.

- Expected benefit: practical project experience, collaborative development skills and exposure to a competitive technical environment.

7.3 Contribution to Departmental Club Objectives

- Exposure to emerging technologies through an LLM-focused workshop.
- Hands-on learning beyond the regular classroom curriculum.
- Innovation-oriented problem solving through the hackathon.
- Development of teamwork, communication, presentation and project-management skills.
- Creation of prototypes and practical technology solutions.
- Increased student participation in department-specific technical clubs and activities.

7.4 Planning and Documentation Note

The above activities are planned/proposed activities and are not presented as completed events. The date and other logistical details for the Tech Vedas 36-hour hackathon will be updated once finalised. Posters, resource-person details, venue, student coordinators, rules, judging criteria, attendance and photographic evidence can be added to the final report after the activities are conducted.

8. Current Status of Club Activities

Category	Club / Activity	Status
Completed	CodeSanket / Departmental Activity Portfolio	**Conducted and documented**
Upcoming	CodeSanket Club – LLM Workshop	**Planned: 12–14 October 2026**
Upcoming	Tech Vedas – 36-Hour Hackathon	**Planned; date to be finalised**

9. Compliance / Evidence Summary

The club activity plan addresses the recommended department-club framework through two complementary department-specific clubs: CodeSanket Club and Tech Vedas – Technical Club. The portfolio combines completed activities with clearly identified upcoming activities, demonstrating a continuing plan for technical learning, emerging technologies, innovation, projects, competitions and industry-oriented exposure.

Recommended Area	Club Activity Evidence	Status
Technical learning	CodeSanket expert talks and workshops; Tech Vedas hackathon	Completed + Planned
Emerging technologies	Smart Sensors activity; planned LLM Workshop	Completed + Planned
Innovation	INNOVISION; hackathon format	Completed + Planned
Projects / practical exposure	Frontend Launchpad; planned 36-hour hackathon	Completed + Planned
Competitions	INNOVISION competition; planned hackathon	Completed + Planned
Industry-oriented exposure	Expert interactions and technology-focused sessions	Completed