



# K.S INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



AI for Atmanirbhar Bharat: HEI Pre-Summit Engagements towards India AI Impact Summit 2026



## Report on Technical Talk "Science and R&D Strengthened by AI"



**KSIT**  
K S INSTITUTE OF TECHNOLOGY

### K. S. INSTITUTE OF TECHNOLOGY

No.14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109  
Autonomous under VTU, Belagavi & Approved by AICTE, New Delhi,  
Accredited by NBA (CSE,ECE ), NAAC A+



DEPARTMENT OF  
ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

### TECHNICAL TALK

ON

### SCIENCE AND R&D STRENGTHENED BY AI

(For VI<sup>th</sup> Sem AI & ML Students )

### Resource Person



Mr. Ravi Shankar. R



30 JAN 2026

@ 11:00 AM



VENUE

AI&ML DEPT. SEMINAR HALL

Ms. UshaSri Gunti  
Co-ordinator

Dr. Suresh M B  
Prof & Head, AIML

Dr. Dilip Kumar K  
Principal & Director,KSIT

## About the Technical Talk:

Department of Artificial Intelligence and Machine Learning of K.S institute of Technology has organized Technical talk on the topic "Science and R&D Strengthened by AI" for 6<sup>th</sup> Sem AI&ML engineering students on 30th December 2026 at the Department Seminar Hall(NB) by Mr.Ravi Shankar. All 68 students were participated in the event.

The talk "Science and R&D Strengthened by AI" provided a comprehensive update on major breakthroughs in artificial intelligence, spanning model architecture, reasoning capabilities, safety mechanisms, AI hardware, and global governance. This report synthesizes the highlights and implications of those developments

### **Objectives:**

#### **1. Strengthen India's Science & R&D Ecosystem using AI**

Shift from AI as an assistant to **AI as an active problem-solving agent**.

Apply agentic AI to national-scale challenges in infrastructure, health, agriculture, and mobility.

#### **2. Move Intelligence from Prediction to Action**

Transition from static ML models to **agentic systems that reason, plan, and act**.

Enable AI systems that operate across perception, simulation, decision-making, and execution.

#### **3. Bridge the Technology Readiness Gap (TRL 4–6)**

Convert academic research into **deployable prototypes**.

Focus on real-world validation, system integration, and operational demos.

#### **4. Accelerate Scientific Discovery**

Use AI (e.g., AlphaFold, GNoME) to drastically reduce time and cost in:

Drug discovery

Molecular biology

Enable **design of new molecules and proteins**, not just analysis.

#### **5. Build Modular, Future-Proof AI Architectures**

Design systems independent of any single model or vendor.

Use LLMs as **executive planners**, combined with specialized engines for vision, math, simulation, and control.

## 6. Create India-First, Impact-Driven AI Solutions

Focus on problems unique to India:

Road safety (Rakshak)

Vision-only autonomous navigation (Drishti)

AYUSH and rural healthcare

## 7. Shift from Report-Driven to Demo-Driven Innovation

Promote a “**Demo or Die**” culture.

Prioritize working systems over theoretical papers.

### Outcomes:

#### 1. Working Agentic AI Prototypes

AI systems that:

Route ship piping automatically from 3D CAD data

Navigate drones using vision-based SLAM + RRT

Predict and prevent road accidents in real time

#### 2. Faster Translation from Research to Deployment

Reduction in development timelines from **months to days**.

Demonstrated TRL-ready systems suitable for pilots and government adoption.

#### 3. National-Scale Impact

Reduced road fatalities through predictive risk alerts.

Improved healthcare access via language-aware, vision-enabled AI tools.

Increased efficiency in engineering, manufacturing, and infrastructure planning.

#### 4. Global-Grade Talent Creation

Students and researchers with:

Real-world systems experience

Production-level AI architectures

Strong pathways to top MS programs and R&D roles (DeepMind, Tesla, Airbus).

## 5. Leverage of IndiaAI Ecosystem

Effective use of:

IndiaAI grants (up to ₹15 Cr)

National GPU infrastructure (H100 access)

AIKosh datasets and challenges

## 6. Reusable AI “Base Material”

Pre-built datasets, trained models, orchestration frameworks.

Hackathons become **showcases**, not starting points.

## 7. Future-Ready AI Systems

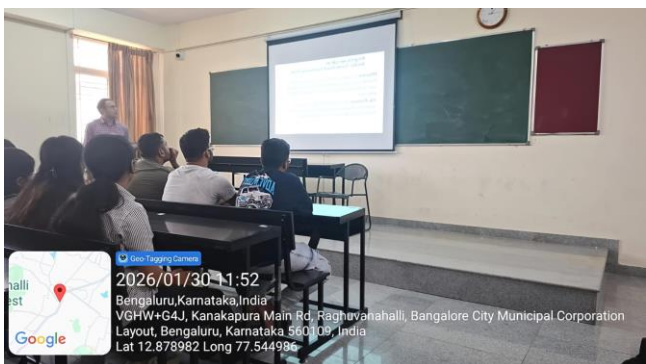
Architectures that seamlessly evolve with:

World models

JEPA-style learning

Next-generation reasoning engines

# Glimpse of Technical Talk



## Event PEO/PO/PSO Mapping

PEO/PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PEO1	2	-	-	-	2	2	-	-	2	-	-	2	1	2
PEO2	2	-	-	-	2	2	-	-	2	-	-	2	1	2
PEO3	2	-	-	-	2	2	-	-	2	-	-	2	1	2

**Coordinator**  
Ms. Ushasri Gunti

**HOD AI&ML**  
Dr. Suresh M B

**Principal**  
Dr. Dilip Kumar K



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## 6th SEM STUDENT LIST 2025-26

Technical talk on Science and R&D Strengthened by AI

Date:30/01/2026

SL. NO.	USN	NAME	Signature
1	1KS23AI001	Alfiya Muhammad	Alfiya
2	1KS23AI002	Anita Kumari	Anita K
3	1KS23AI003	Anusha.C	anusha C
4	1KS23AI004	Aryan L Kumar	Aryan L
5	1KS23AI005	B Ramitha	Bryan L
6	1KS23AI006	Bhanu Priya M	.
7	1KS23AI007	Bharath R	Bharath
8	1KS23AI008	Challa Vamshikrishna	challava
9	1KS23AI009	Chirag Gowda A S	chirag Gowda
10	1KS23AI010	Darshan U G	Darshan U G
11	1KS23AI011	Deepak R	Deep
12	1KS23AI012	Dhanya D N	Dhanya
13	1KS23AI013	Harisha H C	
14	1KS23AI014	Harshavardhan K	HV Kaiwoz
15	1KS23AI015	Harteij Vulchi Kartikeya Raju	Harteij
16	1KS23AI016	Hitesh Balaji G P	Hitesh Balaji
17	1KS23AI017	Janani R	Janani
18	1KS23AI018	Jeevan.K.M	Jeevan.K.M
19	1KS23AI019	Kalai Maha T	Kalaimaha
20	1KS23AI020	Kalva Anusha	
21	1KS23AI021	Kavyasri Saravanan	Ks
22	1KS23AI022	Kharanshu Pal Sharma	Kharanshu
23	1KS23AI023	Kushala B. Gowda	Kushala
24	1KS23AI024	P. Likitha	
25	1KS23AI025	Likhitha M	Likhitha
26	1KS23AI026	Lohith.G	Lohith G
27	1KS23AI027	Lohith G M	Lohith G M
28	1KS23AI028	Manisha T P	Manisha
29	1KS23AI029	Manushree.M	
30	1KS23AI030	Mohitha R	Mohitha R
31	1KS23AI031	Monashree. P	Monashree
32	1KS23AI032	Ramkumar	Ramkumar
33	1KS23AI033	Nirnetha Mn	Nirnetha Mn
34	1KS23AI034	Prema.S	Prema

35	1KS23AI035	Puneeth H P	Puneeth H P
36	1KS23AI036	R Trisha Lakshmi	R Trisha Lakshmi
37	1KS23AI037	Ramanuja U K	Ramanuja U K
38	1KS23AI038	Revanth Krishna Parande	Revant Parande
39	1KS23AI039	Rishab Raghavendra Parande	Rishab
40	1KS23AI040	Rishik H N Gowda	Rishi
41	1KS23AI041	Rithik M	Rithik Hal
42	1KS23AI042	Rohan.M	Rohan
43	1KS23AI043	Saanika S	Saanika
44	1KS23AI044	Sachin	Sachin
45	1KS23AI045	Sai Dathu.R	Sai Dathu
46	1KS23AI046	Samana R Kashyap	Samana
47	1KS23AI047	Sathvik K	Sathvik
48	1KS23AI048	Sharadhi V	Sharadhi
49	1KS23AI049	Shashank N	Shashank
50	1KS23AI050	Shreyas H P	Shreyas
51	1KS23AI051	Shreyas M	Shreyas
52	1KS23AI052	Sneha Priya	Sneha
53	1KS23AI053	Sowjanya K N	Sowjanya
54	1KS23AI054	Sripriya R	Sripriya
55	1KS23AI055	Sudarshan B V	Sudarshan
56	1KS23AI056	Suhas D	Suhas
57	1KS23AI057	Suraj R	Suraj R
58	1KS23AI058	Syed Asger Mehdi	Syed Asger
59	1KS23AI059	Syeda Shifa Anjum	Shifa
60	1KS23AI060	Tarun S	Tarun
61	1KS23AI061	Vasushree A R	Vasushree
62	1KS23AI062	Vinutha D	Vinutha
63	1KS23AI063	Yashaswini.M	Yashaswini
64	1KS23AI064	Pratiksha	Pratiksha
65	1KS23AI065	Varun.S	Varun
66	1KS24AI400	Harshith V Yadav	Harshith
67	1KS24AI401	Karuna Sindhu S	Karuna Sindhu
68	1KS24AI402	Mohan Yadav G S	Mohan
69	1KS24AI403	Soujanya	Soujanya
70	1KS24AI404	Surya S	Surya S

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