



K J's Educational Institute
K J College of Engineering & Management Research
(Accredited by NAAC)
Sr. No. 25 & 27, Kondhwa - Saswad Road, Near Bopdev Ghat, Pune 411048.
Department of Computer Engineering

1. About Centre of Excellence lab

KJ College of Engineering and Management Research, Established Centre of Excellence in Artificial Intelligence on Birth Anniversary of Dr. A. P. J. Abdul Kalam (Missile Man of India) Dated 15th October 2022 to explore more opportunities for AI applications. It is focused on Model building in the fields of Image Classifications & Object Detection, Video Analytics, Speech Recognition, and Price prediction using machine learning.

The Centre of Excellence in Artificial Intelligence utilized for following:

- Excellence in Artificial Intelligence Research.
- Applied Artificial Intelligence: To build a vibrant community of professors, researchers, and students that apply AI to solve real industry-specific problems. Build intellectual property.
- Teaching and Outreach in Artificial Intelligence and Machine Learning.
- Research based Entrepreneurship

2. Objectives

- Conduct theoretical and applied research in the field of artificial intelligence and advanced Technologies.
- Provide training for upstream and downstream capacity enhancement for artificial intelligence
- Encourage multi-stakeholder participation and decision making in addressing the challenges raised by artificial intelligence.
- Disseminate information and encourage literacy about artificial intelligence.
- Offering Advanced programs for readying the future ready workforce in specific domains.
- Create External Funding and Opportunities.



3. Committee

| Sr. No. | Name of Faculty | Designations |
|---------|------------------------------------|---------------------|
| 1 | Dr. Suhas S. Khot | Chairman |
| 2 | Dr. Nikita J. Kulkarni | Coordinator |
| 3 | Prof. Aparna S. Hambarde | Secretary |
| 4 | Dr.Minakshee Patil | Technical Advisor |
| 5 | Prof.Mayuri Vengurlekar | Faculty Member |
| 6 | Prof. Ashwini G. Kamble | Faculty Member |
| 7 | Prof. Geetanjali Bansod | Faculty Member |
| 8 | Mr. Sagar V. Katake | Technical Assistant |
| 9 | Mr.Manas Shete | Student Member |
| 10 | Mr. Shaikh Saad Ahmed Bashir Ahmed | Student Member |



4. COE photos



Team of Centre of Excellence in AI



Students doing project under COE

5. Description of Research Grant

The Grant Ceremony of the Centre of Excellence in Artificial Intelligence, hosted at KJ College of Engineering and Management Research in Pune, marked a significant milestone in the institution's pursuit of excellence in technology and innovation. The event, held in Seminar Hall First Floor on 28 November 2023, at 11:30 am, highlighted the collaboration between academia and industry in the field of artificial intelligence.

The highlight of the ceremony was the presentation of a substantial grant amounting Rs. 5, 60,000 to the Centre of Excellence in Artificial Intelligence. This generous grant is a testimony to the commitment of Tirubaa Pvt. Limited, Pune, for the institution to foster research, development, and innovation in artificial intelligence.

The ceremony was graced by the esteemed presence of Mr. Milind Kshirsagar, Founder and Chairman of Tirubaa Pvt. Limited, Pune. His participation added a distinguished touch to the event, symbolizing the industry's recognition and support for academic endeavours in the area of artificial intelligence.



6. Research Grant Photos

➤ Inauguration Function



➤ Speech Deliver by Principal Sir



➤ **Speech Deliver by HOD (Computer Department)**



➤ **Speech Deliver by Guest**



➤ **Grant Received from Tirubaa Pvt Ltd**





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Department of Computer Engineering

A.Y.2025-26 SEM- I Activity Report

Dr. A P J Abdul Kalam Centre of Excellence in Artificial Intelligence

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3. Alumni Session on “GenAI”

On the occasion of **Engineer’s Day, celebrated on 15th September**, we organized a guest lecture on **Generative Artificial Intelligence (GenAI)** delivered by our distinguished alumnus **Mr. Rutul Sanghavi**. As an accomplished professional in the field of AI and emerging technologies, Mr. Sanghavi brought valuable industry insights and practical perspectives to the session. The purpose of this lecture was to provide students with an understanding of the rapidly evolving landscape of GenAI, its real-world applications, and its growing impact across various sectors. The session conducted by Mr. Rutul Sanghavi proved insightful and informative, offering students meaningful exposure to the advancements shaping the future of technology.

4. Student Development Programme on “Machine Learning with Python”

To bridge the gap between theoretical computer science and industry-relevant skills, the **Department of Computer Engineering** organized a **hands-on workshop on Machine Learning with Python** from **27th October to 31st October 2025**. The primary objective of the workshop was to introduce participants to the core concepts of Machine Learning, with a strong emphasis on practical implementation using Python, thereby enhancing their data science competencies. The sessions were conducted by **Mr. Upendrakumar Tiwari**, Senior Faculty, Data Science Department, IIT Kanpur. His workshop covered essential topics such as data cleaning, supervised and unsupervised learning, regression techniques, clustering methods, and other foundational ML concepts. Through practical exercises and guided examples, participants gained valuable hands-on experience and a deeper understanding of real-world machine learning workflows.

5. Workshop on “Generative AI”

“The Department of Computer Engineering organized a Hands-on Session on **Generative AI** on **15th October 2025** to familiarize students with the rapidly evolving domain of Artificial Intelligence, with a focus on generative models and their real-world applications. The session was conducted by **Mrs. Sarita Waghmare, Senior Data Engineer at Accenture Pvt. Ltd., Pune.**”

6. Planned Projects

- Decentralised Blockchain based Employment Platform for Blue Collar Workers
- A Secure Cloud-based File Sharing Web Application with OTP and Expiry Control
- Ancient Script Recognition and Translation Using Deep Learning





- Cyber Threat Monitoring & Detection System
- AI Driven Anonymous Crime Reporting System
- Developer Productivity Analysis
- Blockchain based Decentralized Employment Platform for Blue-Collar Workers
- Platform for redistribution of surplus food and waste reduction

7. Student Participation

- "The KJCOEMR team achieved a Top 30 ranking among more than 600 participating teams in the FinShield Cybersecurity Hackathon 2025, organized by Bank of India in collaboration with IIT Hyderabad, held on 2nd and 3rd September 2025."





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8. Outcomes of COE lab

| Previous Data | | A.Y.2025-26 Sem-I | |
|----------------------|----|----------------------|----|
| Faculty Publications | 20 | Faculty Publications | 0 |
| Student Publications | 22 | Student Publications | 1 |
| Patent | 04 | Patent | 1 |
| Copyright(filled) | 36 | Copyright(Register) | 12 |
| Book | 1 | Book | 0 |

• A.Y.2025-26 Sem-II Planned Activity

| Activity | Count |
|----------------------|-------|
| Faculty Publications | 22 |
| Student Publications | 35 |
| Patent | 04 |
| Copyright | 11 |
| Book | 1 |



Akamble
Prof. Ashwini Kamble
COE Coordinator

Nikita
Dr. Nikita Kulkarni
HOD Comp.Dept.

Suhas
Dr. Suhas Khot
Principal