

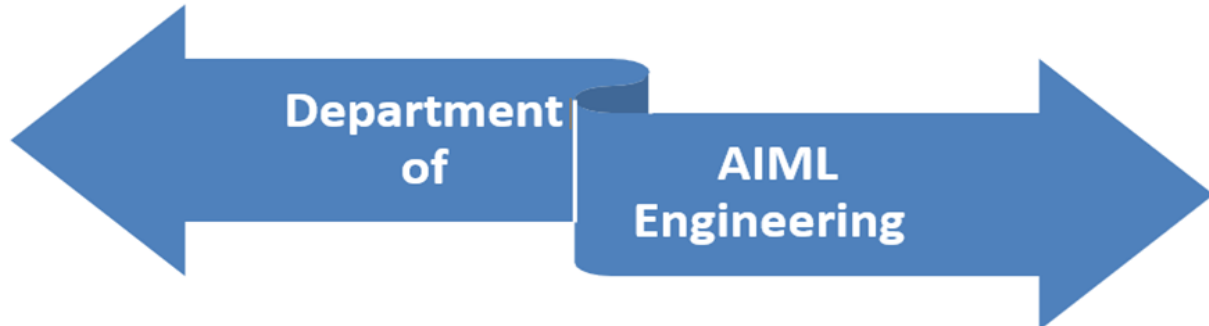


॥ ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार ॥ - शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha's

Dr. Bapuji Salunkhe Institute of Engineering & Technology, Kolhapur

Approved by AICTE, DTE - D6468, Affiliated to MSBTE - 1213 (1st Shift), 1693 (2nd Shift)



Newsletter 2025- 26

1. Vision Mission

2. PEOs

3. Committee

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b. Executive Editor – Mrs. K. S. Sawant
Mrs. S. K. Kamat

c. Faculty Member –

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2. Mrs. P. C. Jasud
3. Ms. S. R. Ghatage
4. Mr. S. K. Kumbhar

d. Student Members-

1. Ms. Taniya Katigar (TY AIML)
2. Ms. Riddhima Budhale (SY AIML)

Chief Editor's Desk:-

To provide latest engineering education and trending technologies to rural students, the department of Artificial Intelligence and Machine Learning (AIML) started in the year 2022 with an intake of 69 students. AI & ML department focuses on solving complex problems using intelligent techniques/ computer programs that makes machine think similar to human beings. The main applications of AI & ML is to develop smart machines in robotics, gaming platform, bio medical engineering, speech and image recognition and much more. AIML provides knowledge on programming, machine learning, data science, which enables students to develop AI/Deep learning based computer system with current and industry knowledge.

-Mrs. A. M. Kate

Vision:

Creating a sense of competence and social responsibility among engineers working in the area of Artificial Intelligence And Machine Learning.

Mission:

M1- Provide best learning through staff and state of the art IT infrastructure.

M2- Facilitate Industry-Institute collaboration to become excellence in leading areas of computing and artificial intelligence.

M3- Prepare students for the workplace by Applying machine learning techniques, software tools to conduct experiments, interpret data and to solve complex problems.

PROGRAM EDUCATIONAL OBJECTIVES

(PEOs)

PEO-1 – Effectively collaborate and communicate as an individual and team member to solve broad-based problems in the field of computer engineering, with a focus on artificial intelligence and machine learning applications.

PEO-2 – Pursue advanced education in artificial intelligence and machine learning, and implement interdisciplinary projects by leveraging AI and ML techniques across various domains.

PEO-3 – Cultivate strong entrepreneurial skills, adhere to professional ethics, and contribute to the development of innovative AI and ML-based solutions for societal and environmental challenges.

Academic Achievements

MSBTE RESULT SUMMER 2025

Class	Rank	Name	Percentage
FY	FIRST		
	SECOND		
	THIRD		
SY	FIRST		
	SECOND		
	THIRD		
TY	FIRST		
	SECOND		
	THIRD		

Faculty list

Sr. No.	Staff Name	Qualification	Designation
1	Mrs. A. M. Kate	M. Tech (AIML) App, B.E (CSE)	HOD
2	Mrs. V. R. Bhivase	M. Tech (Data Science) App, B.E (CSE)	Lecturer
3	Mrs. K. S. Sawant	M.E (Comp Science) App, B.E (I.T)	Lecturer
4	Ms. Poonam C. Jasud	M. Tech (AIML) App, B.E (CSE)	Lecturer
5	Mr. Swaraj S. Kumbhar	M. Sc (Statistics)	Lecturer
6	Mrs. Swati S. Kamat	MCA (App), B.E. (CSE)	Lecturer
7	Ms. Soniya R. Ghatage	M. Tech (AIML) App, B. Tech (CS)	Lecturer

Industrial Visit

The AIML department arranged a industrial visit to Sumago Infotech Pvt. Ltd, and Scope Infotech Pvt. Ltd, Pune for Third Year AIML Engineering Students on 9/1/2026, Friday.

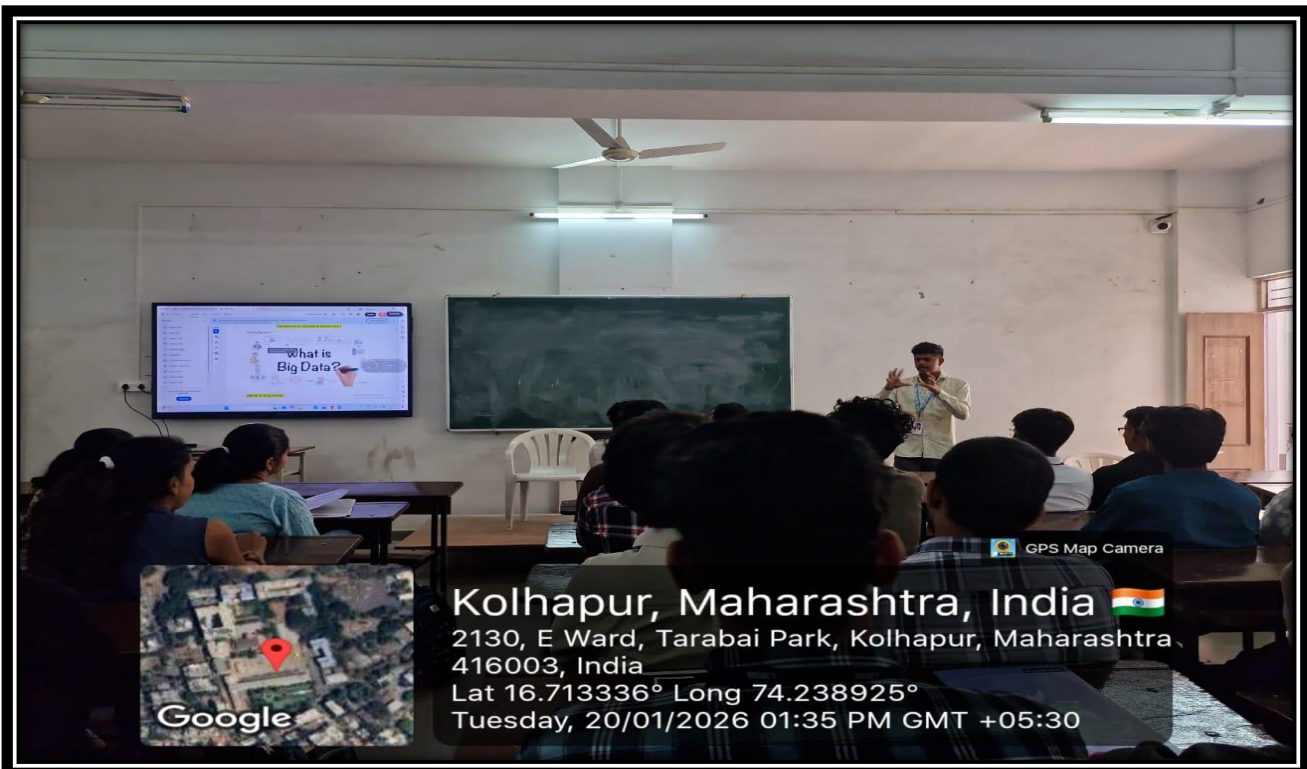




Expert lecture

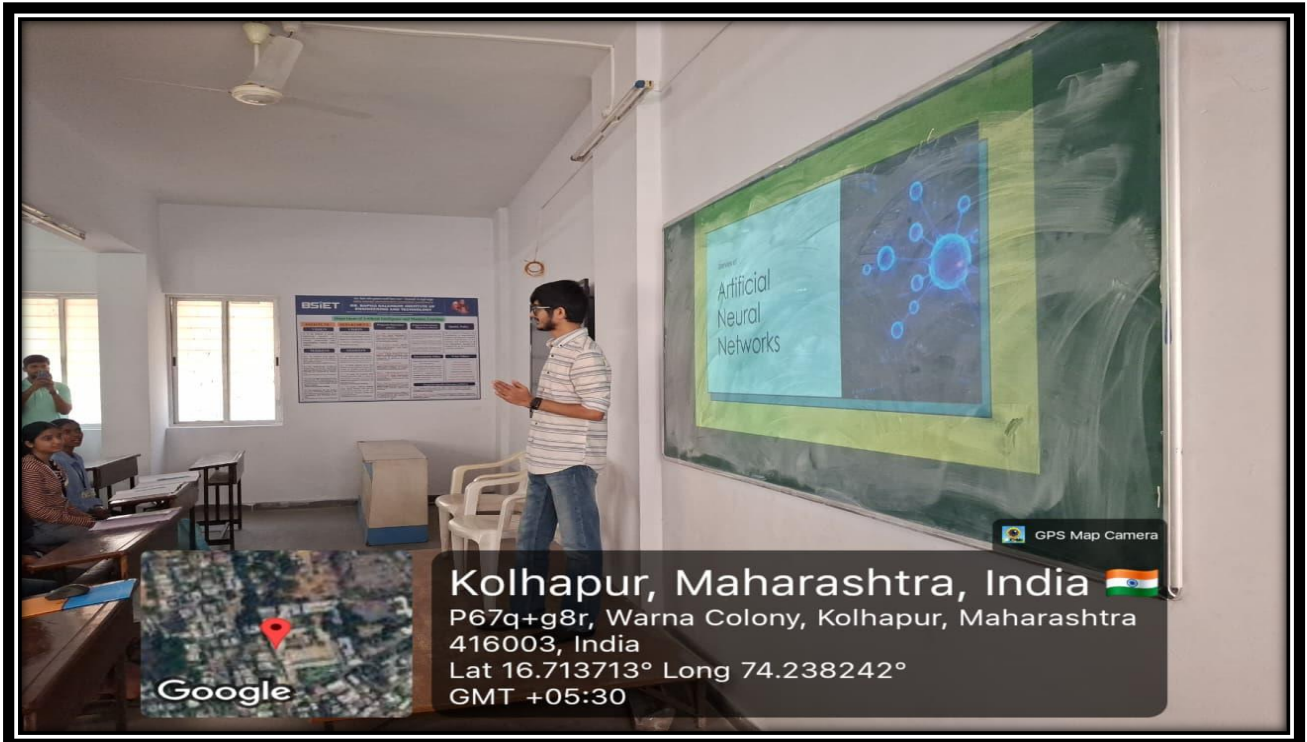
Introduction to Big Data Analytics and Data Visualization

Expert Lecture was conducted by the Department of AIML, on 20/01/2026 at **11:00AM** onwards. The resource person **Mr. Onkar Kokare ,Qliksense Adminstrator Senior Software Engineer at Capgemini India, Bangalore** has taken a lecture on topic **“Big Data Analytics and Data Visualization”** for third year AIML students.



Artificial Neural Networks

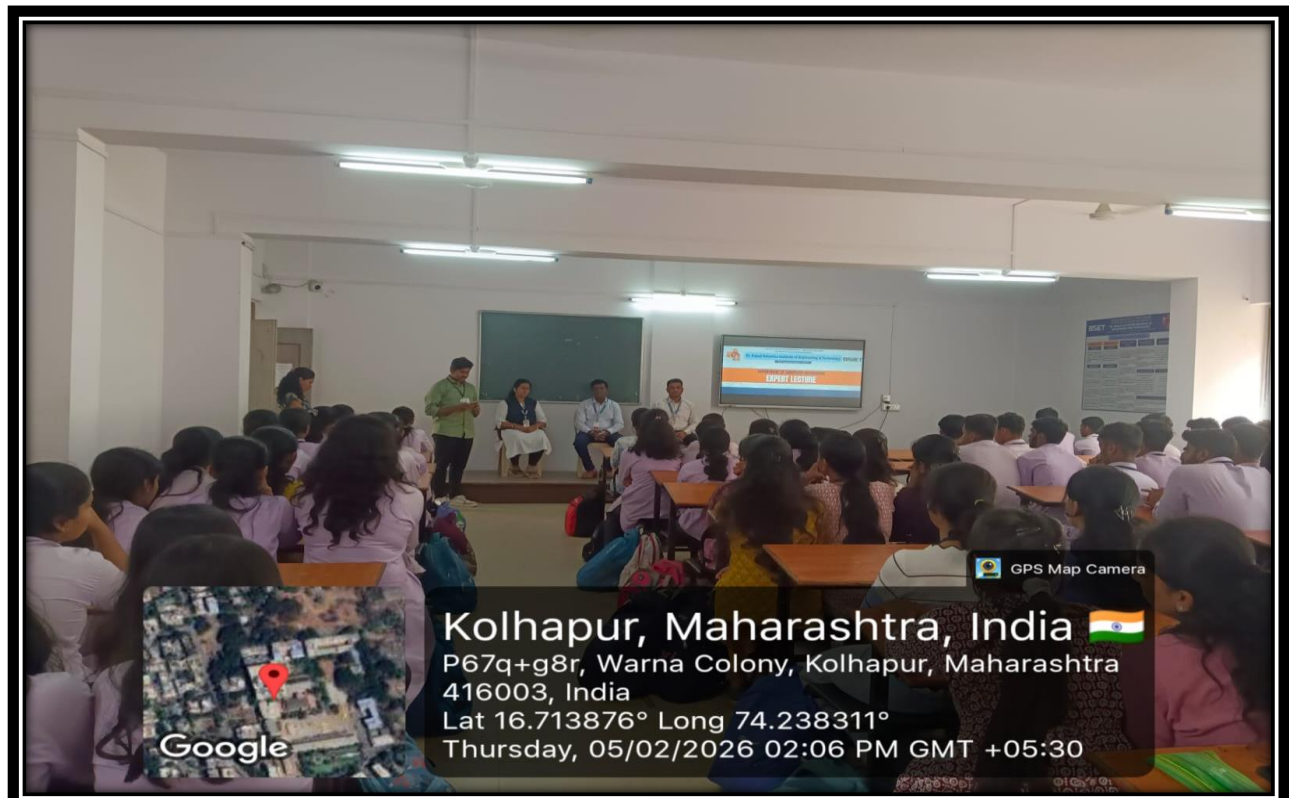
Expert Lecture was conducted by the Department of AIML, on 30/01/2026 at **11:00AM** onwards. The resource person **Mr. Viraj Chavan , Founder & CEO at Websight Works, Kolhapur** has taken a lecture on topic “**Artificial Neural Networks**” for third year AIML students.





Visual Intelligence with Convolutional Neural Networks

Expert Lecture was conducted by the Department of AIML, on 05/02/2026 at **11:00AM** onwards. The resource person Dr. Deepak S. Uplaonkar (Associate Professor, Department of Computer Engineering) International Institute of Information Technology (IIT), Pune has taken a lecture on topic “**Visual Intelligence with Convolutional Neural Networks**” for third year AIML students.





Achievements of Students



In IEDSSA B1-Zonal Carrom Girls Winner 2025-26 Of BSIET Were Sanchita Surve -TY CO, Anushka Otari- TY AN, Harshada Chopade- TY AN, Sejal Kotekar - SY AN, Siddhika Sawant -TY AN, Pranali Patil -TY AN.

Congratulations to the Team



Parents meet of SY AIML students



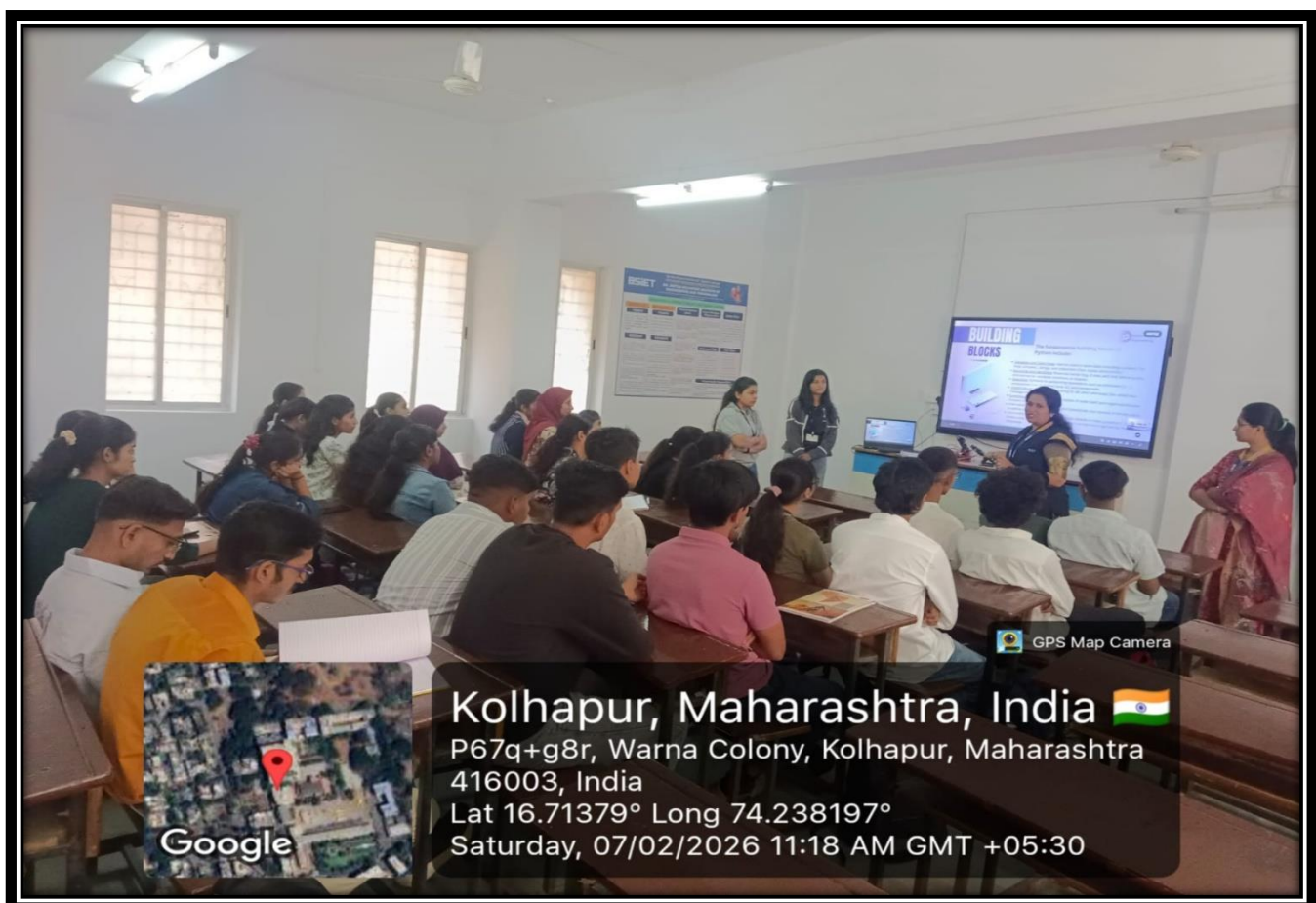
Falcitation of toppers





Workshop arranged for AIML students





Student Achievement

- 1) Taniya Katigar – 2st Runner Up – at National level Paper presentation Competition [Ornate 2K25](#). Held at **Sharad Institute of Technology Polytechnic**, Yadrav, Ichalkaranji.
- 2) Taniya Katigar – 2nd Runner up – at National level Poster presentation Competition ([Anutara 2025](#)). Held at **Sant Gajanan Maharaj Rural Polytechnic, Mahagaon**
- 3) Taniya Katigar applied and got selected as a **Naukri Campus Ambassador** for spreading words and benefits about Naukri Campus platform among students and freshers for preparing themselves for their career and finding amazing job and internship opportunities.
- 4) Siddhika Sawant participated in the [Code Crusade](#) event in **Nimbus 2K25** National level Competition. Held at **Sanjay Ghodawat Institute(SGI), Atigre.**
- 5) Siddhika Sawant participated in the [Vishwavision 2K25](#) at State level Technical Competition. Held at **Bharati Vidyapeeth's College of Engineering, Kolhapur.**
- 6) Siddhika Sawant participated in the [Parikramaa 2K25](#) at National level Technical Competition. Held at Sanjeevan Group of Institutions , Panhala.

Scope of AIML Engineering

AI and ML are integral to digital transformation, creating new business models, enhancing efficiency, and driving innovation, making skills in this area highly valuable across many non-technical roles too, from marketing to logistics.

Core Principles and Applications:

AIML engineering applies principles like learning from data (supervised, unsupervised, reinforcement), pattern recognition, and neural networks, enabling applications from personalized healthcare (diagnosis, treatment) and autonomous vehicles to fraud detection in finance, optimized manufacturing, and smart retail recommendations, revolutionizing industries by automating complex tasks and enhancing decision-making across nearly every sector.

Industries and Job Roles:

- **Data Scientist:** Analyzes complex data, builds models, and extracts insights.
 - **Machine Learning Engineer (MLE):** Designs, builds, and deploys ML models into production.
 - **AI Engineer/Developer:** Develops AI applications and integrates AI solutions.
 - **Data Analyst:** Cleans, interprets, and visualizes data for business decisions.
 - **AI Researcher:** Innovates new algorithms and advances AI theory.
 - **Robotics Engineer:** Develops intelligent robots and automation systems.
 - **NLP Engineer:** Specializes in Natural Language Processing (chatbots, text analysis).
 - **Computer Vision Specialist:** Works with image and video recognition.
 - **AI/ML Architect:** Designs overall AI system infrastructure.
 - **AI Consultant:** Advises businesses on AI strategy and implementation.
 - **AI Product Manager:** Leads the development of AI-powered products.
- **Specific Job Titles:**
 - AI Artificial Intelligence Engineer
 - Machine learning engineer
 - Data engineer
 - Data Analyst
 - Natural Language Processing (NLP) Engineer
 - Robotics Engineer

- **Skills and Knowledge:**

- Strong analytical and problem-solving skills.
- Ability to work in teams and communicate effectively.
- Programming: Python (primary), R.
- Math & Stats: Linear Algebra, Calculus, Probability, Statistics (for model evaluation, uncertainty).
- Computer Science Fundamentals: Data Structures, Algorithms, Time/Space Complexity.
- Machine Learning: Supervised/Unsupervised Learning, Model Optimization, Evaluation, Feature Engineering.
- Deep Learning: Neural Networks, Frameworks (TensorFlow, PyTorch, Hugging Face).
- Data Handling: Pandas, NumPy, SQL, Data Cleaning, Visualization (Matplotlib, Tableau).

- **Future Outlook:**

The career is future-proof for professionals who are adaptable, possess strong problem-solving skills, and commit to continuous upskilling in the latest tools and techniques. The ability to translate theoretical knowledge into practical, real-world business solutions is the key to success in this dynamic field.

In Government sector

There are significant opportunities for **AI and Machine Learning (AIML) engineers in the Indian government sector**, particularly in defense, space research, and e-governance. Various government agencies actively recruit AI specialists for a range of roles.

- **Defence Research and Development Organization (DRDO):** Utilizes AI for advanced surveillance, autonomous systems (drones, robotics), and national security applications. They hire for roles like Defence Data Analyst and Robotics Engineer via the Recruitment and Assessment Centre (RAC).
- **Indian Space Research Organization (ISRO):** Employs ML for satellite image analysis, autonomous navigation, and space robotics. Positions such as Machine Learning Engineer and Remote Sensing Specialist are available and can be applied for via the ISRO portal.
- **National Informatics Centre (NIC):** Focuses on digital governance and smart city initiatives, with roles in data engineering, AI project leadership, and software development. Job openings are posted on the NIC website.
- **Public Sector Undertakings (PSUs):** Agencies like NTPC, BHEL, and IOCL use AI for predictive maintenance, energy efficiency analysis, and process optimization. Recruitment often occurs via the GATE exam or specific job portals.
- **NITI Aayog:** The government's premier think tank hires Policy Research Fellows and AI Strategy Advisors to shape national AI policy and data analytics initiatives.
- **Other Departments:** Opportunities also exist in healthcare (ICMR projects), agriculture (drones for monitoring), finance (public sector banks for fraud detection), and various central ministries.