PUNE'S BIGGEST TECHFEST

SOLUTIONS

PRESENTS

TRAINIT

HACKATHON

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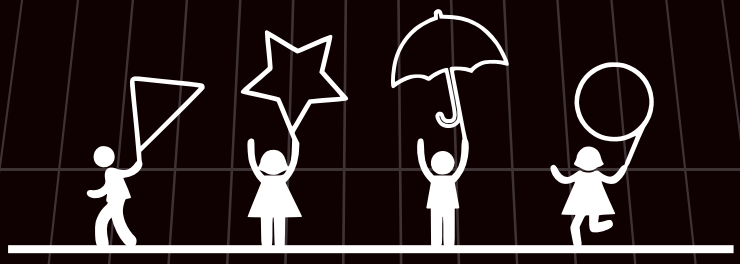


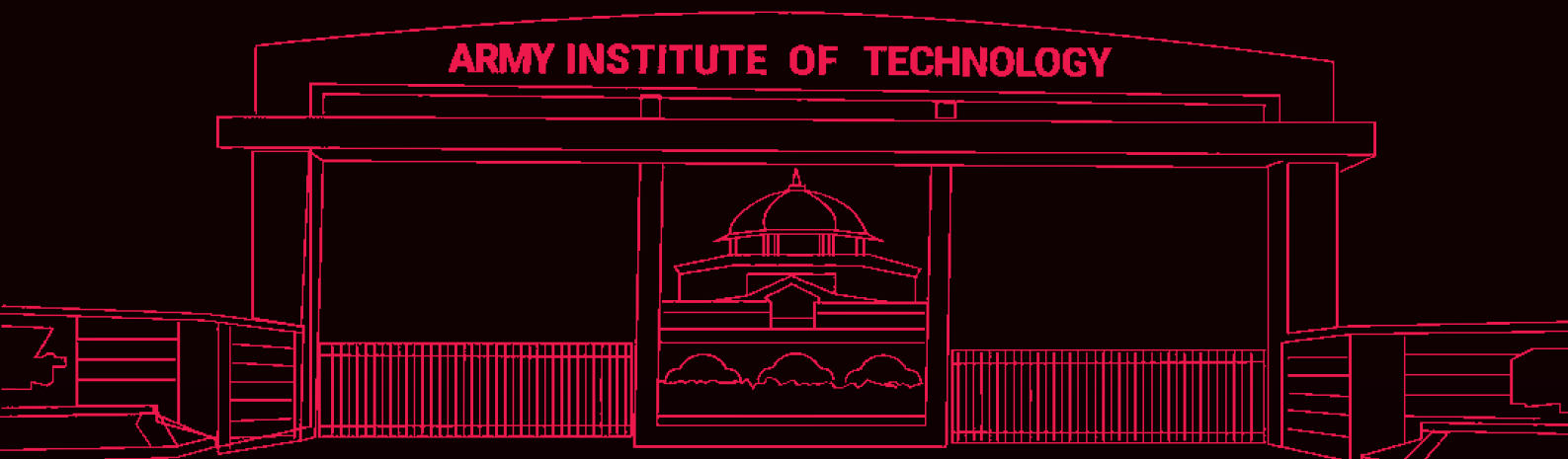
PRIZES WORTH 100K+

19th - 23rd March 2025

ABOUT AIT PUNE

Army Institute of Technology, Pune (AIT) is an undergraduate engineering college affiliated with the University of Pune. AIT is located at Dighi Hills, Alandi Road area in Pune, Maharashtra, India. Only wards of Army personnel are allowed admission, and the process is conducted through the JEE Mains Exam.

AIT functions under the aegis of the Army Welfare Education Society (AWES) and has the senior most officer of the Indian Army, the Chief of Army Staff (COAS), as the President of its Board of Governors. The beautiful campus, serene ambience, architectural splendor, and state-of-the-art infrastructure provide vital ingredients for fostering a delectable academic environment for developing total quality engineers.



OVERVIEW

The **TRAIN-IT** Hackathon, organized by the Trinity Club of the **Army Institute of Technology**, is a virtual competition designed to inspire innovation in AI, Machine Learning, and Data Science. This online hackathon challenges participants to solve real-world problems across various categories, including data science for social impact, real-time object tracking, anomaly detection, and AI-driven automation. By fostering creativity and technical excellence, TRAIN-IT offers a platform for participants to showcase their expertise while driving impactful solutions.

As an **online hackathon**, TRAIN-IT ensures accessibility to participants from all corners of the country, breaking geographical barriers and promoting diverse collaboration. With expert guidance, comprehensive resources, and an impressive total prize pool exceeding **INR 1 lakh**, the event promises a unique opportunity for tech enthusiasts to engage, compete, and grow.

EVENT TIMELINE

- **Registration Deadline:** 15th March 2025
- **Submission Deadline:** 23rd March 2025
- **Winners Announcement:** Within 7 working days after submission deadline

EVENTS CATEGORIES

- **ImpactX: Data for Change** (Data Science for Social Impact)
- **PixelPlay: Visionary Games** (Computer Vision-Based Game)
- **Outlier Quest** (Anomaly Detection in Data / Recommendation Systems)
- **Visionary Tracker** (Real-Time Object Detection & Tracking)

REGISTRATION DETAILS

- **Registration Deadline:** 15th March 2025
- **Platform:** Teams must register through Unstop before the deadline.
- **Team Composition:** Teams can consist of 1 to 3 members.
- **Team Restrictions:** Teams can consist of participants from different institutions or colleges.

Register Now on UNSTOP

GENERAL RULES

- All solutions must be original and developed during the hackathon timeframe.
- Pre-existing projects, plagiarized work, or pre-trained models (except permitted ones) are strictly prohibited.
- Models must not be copied or reused from previous work. Every model must be unique and developed specifically for the hackathon.
- Teams must ensure that their submissions are not identical to widely available models used in other hackathons.
- Participants must provide proper attribution for any external libraries or code snippets used.
- Teams must document their code and solutions clearly for evaluation.

SUBMISSION GUIDELINES

- Participants must submit a ZIP file(maximum size: 50MB) containing the following:
    - **Code:** Complete project code with a GitHub repository link, ensuring proper documentation and clear structure.
    - **Presentation:** A PDF (maximum 10 slides) explaining the approach, key insights, and final solution.
    - **Documentation:** A README file detailing project setup, datasets used, tools & technologies implemented, and execution instructions.
- **Submission Platform:** All submissions must be uploaded on Unstop within the given deadline.

PIXELPLAY

- **Description:** Develop an interactive computer vision-powered game.

- **Deliverables:**
  - Playable game prototype.
  - Detailed documentation of gameplay and technical workflow.

- **Tools/Technologies:** OpenCV, MediaPipe, Python.

- **Constraints:** Must incorporate motion detection or gesture control.

IMPACT-X

- **Description:** Use data science to address global challenges such as climate change, poverty, and public health.

- **Deliverables:**
  - Exploratory Data Analysis (EDA) with visualizations.
  - A predictive model using appropriate techniques.
  - Social impact report.

- **Tools/Technologies:** Python, Pandas, NumPy, Matplotlib, Scikit-learn.

- **Constraints:** Use only the provided dataset. No external datasets or pre-trained models.

OUTLIER QUEST

- **Description:** Build a solution for anomaly detection or recommendation systems.

- **Deliverables:**
  - Anomaly detection system or recommendation engine.
  - Metrics (precision, recall), and an analytical report.

- **Tools/Technologies:** Python, Scikit-learn, TensorFlow, Surprise.

- **Constraints:** Ensure reproducibility and transparency.

VISIONARY TRACKER

- **Description:** Create a real-time object detection and tracking system for dynamic environments.

- **Deliverables:**
  - Functional live demo of object detection and tracking.
  - A video showcasing the results.

- **Tools/Technologies:** OpenCV, YOLOv5, TensorFlow, PyTorch.

- **Constraints:** Custom tuning and fine-tuning of models required.

JUDGING CRITERIA

- **Originality & Innovation (30%):** Uniqueness and creativity of the solution, bringing in fresh perspectives or approaches.
- **Technical Implementation (40%):** Accuracy, performance, and robustness of the solution; how effectively the solution is implemented to address the problem.
- **Relevance & Impact (20%):** Societal relevance and how well the solution addresses the challenge or real-world issue.
- **Solution Documentation (10%):** Quality and clarity of the written submission, including an explanation of the approach, results, and impact.

CODE OF CONDUCT

- Respect fellow participants & organizers.
- Follow the event's schedule strictly.
- Any harassment or misconduct will lead to disqualification and expulsion.
- Use of offensive language in presentations or documentation is prohibited.

CONTACT US

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