Gaurav Jadhav

AI / Machine Learning Engineer · Full-Stack (MERN) · 3rd Year B.Tech IT

+91-9175167536 · ggauravj05@gmail.com · linkedin.com/ggauravj05 · gauravjadhav.vercel.app/

PROFESSIONAL SUMMARY

AI/ML Engineer and third-year Information Technology undergraduate (CGPA: 9.55) at MMCOE, Pune, with a strong foundation in machine learning, data-driven system design, and scalable software engineering. Winner of the MIT ADT AI Grand Challenge 2026 against 3,200+ teams nationwide; national finalist at IGNISIA '26 and XENIA 2026. Proven ability to architect and deliver production-grade AI systems spanning fraud detection, cognitive load prediction, and intelligent logistics — with a focused career direction in FinTech AI/ML, targeting roles at the intersection of financial intelligence, risk modelling, and applied machine learning. Aspiring to contribute to high-impact engineering teams at world-class organisations such as Google, Meta, Microsoft, Nvidia, and Tesla, where cutting-edge AI drives real-world scale.

ACHIEVEMENTS & AWARDS

Winner (1st Place) | MIT ADT AI Grand Challenge 2026

- Outperformed 3,200+ teams nationwide to secure 1st rank for a high-impact AI prototype with production-grade architecture.
- Awarded ₹1,00,000 cash prize recognising technical excellence, model scalability, and system innovation.

National Finalist | IGNISIA '26 National-Level AI Hackathon

- Ranked Top 5% (Top 77 out of 1,600+ teams) across India for the Impulse Route AI routing solution.
- Selected for the Grand Finale based on project feasibility, AI implementation quality, and scalability evaluation.

Top 6 Finalist | XENIA Hackathon 2026

- Recognised among the top performers out of 350+ teams for rapid prototyping and engineering excellence.

Best Outgoing Student | Vision English Medium School

- Awarded Best Outgoing Student at the 10th grade level in recognition of academic excellence, overall performance, and consistent contributions to the school community.

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, SQL

ML / AI: Scikit-Learn, XGBoost, Feature Engineering, Model Evaluation, Risk Modelling, On-Device ML, Behavioural Telemetry

Data & Visualization: Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup

Web / Backend: React.js, Node.js, Express.js, MongoDB, REST APIs, Tailwind CSS

Tools & Platforms: Git, Linux, Figma, Arduino, ESP32, Cloud Deployment (AWS/GCP basics)

FinTech / AI Domains: Fraud Detection, Risk Scoring, Financial Intelligence, Route Optimisation, Cognitive Load Prediction

CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

AI / ML PROJECTS

1. InsureTrust | Multi-Layered Forensic Insurance Verification

Tech Stack: *Python, XGBoost, Image Forensics, Scikit-Learn, Feature Engineering*

- Architected an end-to-end forensic AI pipeline for insurance fraud detection, combining document integrity analysis, image metadata extraction, and pixel-level tamper detection — directly applicable to FinTech fraud prevention and risk management at scale.
- Engineered a multi-layered XGBoost-based risk scoring system with custom feature engineering pipelines extracting structured signals from unstructured document data, significantly improving classification precision and recall over rule-based baselines.
- Designed the system for extensibility toward real-time financial transaction fraud detection, with modular components for document verification, anomaly scoring, and automated risk flagging.

2. FlowState | Privacy-First Productivity & Cognitive Load Predictor

Tech Stack: *Python, Scikit-Learn, Behavioural Telemetry, On-Device ML, User-Space Orchestration*

- Built a privacy-first on-device ML system that monitors cognitive load in real time using granular behavioural telemetry — demonstrating expertise in edge inference, data privacy architecture, and low-latency model deployment with zero cloud dependency.

- Trained and optimised localised classification models on behavioural feature sets; implemented an adaptive feedback controller that dynamically adjusts system parameters based on predicted stress levels, achieving measurable improvement in sustained focus.
- System architecture reflects production-level ML design principles: modular pipelines, offline inference, fault isolation, and real-time feedback loops — directly transferable to embedded AI roles at companies like Nvidia and Tesla.

3. Impulse Route | National-Level AI Routing Solution

Tech Stack: *Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn*

- Engineered a high-efficiency AI routing engine for national-scale logistics, applying path optimisation algorithms and intelligent resource allocation models to large, complex graph-structured datasets.
- Achieved Top 5% nationally (IGNISIA '26, 1,600+ teams) through rigorous algorithmic refinement, scalability benchmarking, and iterative model tuning — demonstrating competitive engineering under real-world constraints.

POSITIONS OF RESPONSIBILITY

Renascent Mirai Foundation *Jan 2026 – Present*
Director *Pune, India*

- Leading end-to-end architecture and delivery of web applications and internal management systems serving real-world NGO operations — managing requirements, system design, and deployment independently.
- Enforcing cybersecurity best practices, data privacy compliance, and cloud scalability across all digital platforms.

Defence Institute of Advanced Technology(DIAT), DRDO *June 2026 – Present*
Research Intern *Pune, India*

- Conducted extensive exploratory data analysis (EDA) and data preprocessing on complex datasets, engineering custom features to mitigate class imbalance and boost overall baseline precision.

IT Tech Club, MMCOE *Aug 2025 – Present*
President *Pune, India*

- Leading a 100+ member technical community; spearheaded AI/ML workshops, coding competitions, and national-level hackathon participation drives.
- Mentored junior members in DSA, project development, and competitive programming; managed sponsorships, event logistics, and cross-team coordination.

IEEE Student Branch, MMCOE *Jan 2026 – Present*
Webmaster | Core Committee Member *Pune, India*

- Built and maintained the IEEE Student Branch website and digital ecosystem; implemented content workflows to promote technical events and increase member engagement.

IEEE Pune Section *Jan 2026 – Present*
SAC | Member Relations Team *Pune, India*

- Driving inter-branch student collaboration and member retention across IEEE chapters; coordinating regional initiatives and professional networking opportunities.

EDUCATION

Bachelor of Technology — Information Technology *2024 – 2028*
Marathwada Mitra Mandal's College of Engineering (MMCOE) *Pune, India*
CGPA: 9.55 | Currently in 3rd Year

12th HSC *2022 – 2024*
Sir Parashurambhau College *Pune, India*