

# Gautam Bhagat

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## EDUCATION

### PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

Bachelor of Technology in Computer Science and Engineering (AI & ML)

Pune, MH

May 2025

## WORK EXPERIENCE

### LEMMA TECHNOLOGIES

Software & GenAI Engineer

Pune, MH

Dec 2024 – Present

- Independently sculpted a **GenAI-powered pipeline to generate DCO ad creatives for DOOH**, mobile, web, and social media; replaced manual design workflows, used Golang channels for parallelism, and **delivered production-ready ads in 30–50 secs**.
- Spearheaded geo-area standardization using IAB taxonomy**, slashing inventory mapping time to 10–12 seconds while improving audience segmentation and enhancing targeting precision across digital inventory.
- Revamped the campaign forecasting engine using LLM-driven insights to **analyze viewership patterns and deliver real-time predictions under 4 seconds**, improving KPI alignment and advertiser decision-making.
- Developed an end-user-facing MCP client that allows users to query UI dashboards and trigger API actions using natural language, enabling text-based analytics and automated decision-making workflows.

### MUKS ROBOTICS

AI & ML Engineer

Pune, MH

April 2024 - July 2024

- Engineered a real-time face recognition for factory access control, **enabling seamless authentication for 1,500+ employees**.
- Architected an **AI-based QA system, cutting false rejections by 40–50 units every 15 minutes** by correcting human error.
- Deployed a **PPE violation detection system for construction sites using OpenCV**; weekly safety violations dropped from ~100 to 15–20 within four weeks, driving compliance via real-time alerts.

### DIBC

Full Stack Developer

Mumbai, MH

Jan 2022 - July 2022

- Developed a **cab-based ad-viewing platform (Greenvue Ads) with MDM control** and dual reward logic; **rolled out in 150+ cabs**, enabling targeted ad delivery and incentivized engagement for both passengers and drivers.
- Built scalable **Django backends handling 10K+ daily API calls**; reduced server response time by 40% and boosted data processing speed by 30% through asynchronous views and optimized endpoints.

## UNIVERSITY PROJECTS

### FOGAN-X

- Developed a Custom **GAN-based dehazing algorithm using PyTorch and CNNs**, integrated with a real-time drone feed via RTSP, enhancing visibility by 40% and halving processing time for disaster response operations.

### SAHARA

- Created an **AI device for visually impaired users with 95% obstacle detection and 98% currency recognition** using YOLO, MiDAS, and NLP. Enabled autonomous navigation via Raspberry Pi and voice-based feedback

### ScoreCraft

- Built an **AI exam platform using FastAPI, React, and LLMs with 93% grading accuracy**. Included RAG-based question generation, real-time facial recognition, and tab-switch detection for automated scoring and academic integrity.

## SKILLS

- Programming:** Java, Python, JavaScript, TypeScript, C, C++, C#, Dart, Flutter, Golang
- Frameworks & Libraries:** React, Next.js, Django, Node.js, Express, FastAPI, TensorFlow, PyTorch
- Database Systems:** MySQL, PostgreSQL, MongoDB, Firebase, Oracle
- Cloud & Tools:** AWS, Google Cloud Platform, Docker, Git, GitHub, Postman, JIRA, Google Analytics, Superset
- Machine Learning:** NumPy, Scikit, NLP (Transformers, BERT), CNNs, Deep Learning, RAG, N8N

## ACTIVITIES

- Presided over the GeeksforGeeks Chapter**, leading a team of 50+ executives and organizing a tech talk with 700+ attendees and a hackathon with 150+ participants.
- Outperformed 44,000+ participants** to become a Finalist in the SIH 2023, a premier national innovation competition.
- Ranked among top teams out of 8,000+** in La Trobe University's global Tech Infusion Smart City Challenge as a Finalist.