

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

Pune, MH

AI & ML Engineer

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

Mumbai, MH

Full Stack Developer

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.