

MAYUR GIRI

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SUMMARY

AI/ML Engineer & Full-Stack Developer with experience building scalable machine learning pipelines, backend systems, and full-stack applications. Skilled in Python, Flask, TensorFlow, Scikit-learn, React, SQL/NoSQL databases, and cloud platforms. Strong in model training, optimization, data preprocessing, API development, and deploying AI solutions. Seeking opportunities to contribute to ML engineering, backend development, and full-stack product development.

VIRTUAL PROGRAMS WORK EXPERIENCE

Accenture – Developer & Technology Virtual Experience	May 2024 - Jul 2024
• Completed modules in debugging, Agile workflows, SDLC, and DevOps-aligned engineering tasks.	

Tata Group – Cybersecurity Analyst Virtual Experience	Feb 2024 - Apr 2024
• Practiced simulated IAM, security analysis, and risk evaluation tasks.	

PROJECT EXPERIENCE

AI-Based Insider Threat Detection System	<u>view</u>	Backend & ML Engineer Jun 2025 – Present
<ul style="list-style-type: none">Developed scalable backend pipelines for log ingestion, preprocessing, and feature extraction.Implemented ML models for anomaly detection using Isolation Forest, Autoencoders, and LSTM networks.Designed and deployed Flask REST APIs for inference, anomaly scoring, alerting, and data visualization.Integrated backend with a React + Tailwind dashboard for real-time monitoring.Optimized model latency and improved system performance with database tuning and pipeline enhancements.		
Tech: Python, Flask, Scikit-learn, TensorFlow, PostgreSQL, MongoDB, React, Tailwind		

AI-Based Medical Diagnostics System	Backend & ML Engineer Jan 2024
<ul style="list-style-type: none">Built a CNN-based medical imaging classifier with optimized preprocessing and inference.Developed backend and frontend for real-time uploads and diagnostic predictions.Designed model evaluation workflows for accuracy benchmarking.	

Tech: TensorFlow, Keras, OpenCV, Flask, React

Driver Fatigue Detection System

Backend & ML Engineer | Jun 2024

- Created real-time fatigue detection using facial landmarks, eye tracking, and head pose estimation.
- Engineered CV pipeline for stable detection under varied lighting and environmental conditions.
- Built alert-triggering mechanisms for road safety applications.

Tech: Python, OpenCV, Dlib, TensorFlow

Additional Projects

- Speech Transcription System – Converts video speech to text using STT models.
- Personalized Diet Recommendation System – AI + Flask + React, dynamic plan generation.
- Chit-Chat App – Real-time messaging using MongoDB + Express. [view](#)

EDUCATION

Bachelor of Engineering – Artificial Intelligence & Data Science

2022 - 2026

University of Mumbai

- Specialization in Advanced AI.
- Thesis on "Innovations in Artificial Intelligence and Machine Learning".
- CGPA: 7.0/10
- Focus: AI, ML, DL, NLP, Computer Vision

ADDITIONAL INFORMATION

Core Skills

- **Machine Learning & AI:** Supervised/Unsupervised Learning, Deep Learning, Anomaly Detection, Autoencoders, LSTM, CNNs, NLP, Computer Vision, Model Evaluation, Feature Engineering
- **Frameworks & Libraries:** TensorFlow, Keras, Scikit-learn, OpenCV, NumPy, Pandas
- **Backend Development:** Python, Flask, REST APIs, Authentication, Logging, Microservices, Data Pipelines
- **Frontend Development:** React.js, Next.js, Tailwind CSS
- **Databases:** PostgreSQL, MongoDB, Firebase
- **Cloud & DevOps:** Azure ML, Google Cloud, Git, Deployment Workflows
- **Other:** Debugging, Optimization, Version Control, Documentation, Collaboration

Languages: English, Hindi, Marathi

Certifications:

- IBM Cloud Computing Fundamentals [view](#)
- Microsoft Azure ML Pipelines [view](#)
- Google Cloud ML APIs & Infrastructure [view](#)
- Google Cloud Arcade Facilitator Program [view](#)