

UDIT SHETTY

 [uditshetty](#) |  [uditshetty091](#) |  uditshetty091@gmail.com |  8951245387

Summary

Aspiring AI/ML Engineer with hands-on expertise in Machine Learning, Deep Learning, and Natural Language Processing (NLP), Computer Vision, Python backend development, and cloud deployment. Proficient in Python and experienced in developing data-driven, AI-powered applications using industry-standard machine learning frameworks. Passionate about developing scalable AI solutions that solve real-world problems.

Projects

Plan2Scene AI *Python, YOLOv11, OpenCV, Trimesh, FastAPI, React* [GitHub](#)

- Developed an AI-powered system that converts 2D floor plans into interactive 3D building models using a YOLOv11-based detection pipeline.
- Designed a reconstruction pipeline for wall graph generation, room extraction, door/window placement, mesh generation, and GLB export for interactive 3D visualization.

Face Recognition Attendance System *Python, OpenCV, MediaPipe, FaceNet, TensorFlow* [GitHub](#)

- Built an AI-powered desktop attendance system using MediaPipe for real-time face detection and FaceNet to generate 512-dimensional facial embeddings.
- Implemented cosine similarity-based face recognition with threshold-based unknown face detection and automated attendance logging using SQLite.

AI Government Scheme Navigator *Python, FastAPI, PostgreSQL, AWS, Nginx, Gunicorn* [GitHub](#)

- Developed an AI-powered government scheme recommendation platform using FastAPI and PostgreSQL to match users with eligible welfare schemes and Designed REST APIs and implemented rule-based eligibility evaluation with AI-generated explanations.
- Deployed the application on AWS EC2, RDS, S3, CloudFront, Nginx, and Gunicorn, ensuring scalable and reliable backend services.

Technical Skills

Languages:	Python, SQL
Machine Learning :	Regression, Classification, Clustering, Feature Engineering, Hyperparameter Tuning, Ensemble Learning, Dimensionality Reduction (PCA), Model Evaluation
Deep Learning :	TensorFlow, Pytorch, Keras, Computer Vision
Libraries :	Scikit-learn, OpenCV, MediaPipe, Pandas, NumPy, Matplotlib, Seaborn
Data Visualization :	Power BI, Tableau
Backend :	FastAPI, Dash, Plotly
Databases :	PostgreSQL, MySQL, MongoDB
Tools :	Git, GitHub, VS Code

Education

AJ Institute of Engineering and Technology, Mangalore *2023 – Present*
Bachelor of Engineering (B.E.) in Information Science and Engineering **CGPA: 7.7**

St. Aloysius Pre-University College, Mangalore *2021 – 2023*
Pre-University Course (PCMS) **Percentage: 89.5%**

Achievements

ET GenAI Hackathon *2026*

Developed an AI-powered Government Scheme Navigator that recommends welfare schemes using Python, FastAPI, PostgreSQL, and AWS deployment.

Quantium Software Engineering Virtual Experience (Forage) *2026*

Completed practical tasks including data preprocessing, building an interactive Dash analytics dashboard, implementing automated testing using PyTest, and CI-style test automation.