GOKUL MALLABATHULA

CS UNDERGRADUATE · AI / ML

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ABOUT ME

Computer Science undergraduate at VIT-AP University with strong foundations in Python, software development, and data analysis. Experienced in building health-tech and ML applications using Flask, React, Next.js, and Supabase. Completed professional internships as a Fraud Detection Engineer and ML Engineer. Passionate about AI, data science, and developing scalable software solutions with real-world impact.

EXPERIENCE

FRAUD DETECTION ENGINEER INTERN

Jan 2026 – Mar 2026 – *Zetheta Algorithms Pvt. Ltd.*

- Worked on multiple proprietary fraud detection projects for financial security systems.
- Gained exposure to real-world anomaly detection and financial data pipelines.

MACHINE LEARNING INTERN

July 2026 – Aug 2026 (Upcoming) – *FlyRank AI*

- Joining as a Machine Learning Intern to build and deploy AI-driven product features during a 6-week engagement at a growth-focused AI startup.
- Will contribute to production-level ML pipelines, applying model optimization and data-driven techniques to solve real-world business challenges.

PROJECTS

SAFEPULSE | CARDIOVASCULAR RISK ANALYSIS

Python · TensorFlow · Scikit-learn · XGBoost · SHAP · Vercel · safepulse.in

- Built classification models (Logistic Regression, Random Forest, XGBoost) to predict cardiovascular disease risk from clinical data with end-to-end ML pipeline.
- Implemented missing value imputation, feature scaling, class imbalance handling, cross-validation, and SHAP explainability; deployed with custom DNS.

CARE TRANSITION EFFICIENCY ANALYTICS

Python · Pandas · Streamlit · Plotly · Machine Learning

- Engineered 5 process efficiency KPIs from 720 daily HHS UAC Program records (2023–2025), modelling the CBP → HHS → Sponsor care pipeline to detect bottlenecks.
- Built an interactive Streamlit dashboard with real-time KPI filtering and automated bottleneck alerts; published findings in a full academic research paper.

ParkSmart AI | Smart Vehicle Parking Management System

TypeScript, ReactJS, Vite, Supabase, SQL

- Developed an AI-powered web application for vehicle entry/exit management, parking slot allocation, and real-time parking availability tracking.
- Implemented secure authentication, database operations, and intelligent parking recommendations, improving parking management efficiency and user experience.

RURALLINK AI
Next.js · TypeScript · Supabase · Gemini 1.5 Flash · Web Speech API · Vercel

- Built a multilingual voice-based web app helping rural Indian users find public services, using Gemini AI for natural language understanding and Web Speech API for voice input.
- Developed the AI pipeline and API routes (/api/query, /api/journal, /api/feedback); entered in USAII Global AI Hackathon 2026.

EDUCATION

2024 – Present
B.Tech – Computer Science & Engineering
VIT-AP University · CGPA: 8.37

Class XII (AP Board)
89%

Class X (CBSE)
91.6%

CERTIFICATIONS

Generative AI Workshop
IIT Hyderabad
LLMs, Prompt Engineering, AI Applications

PROFILES

GitHub
Portfolio

SKILLS

Languages: Python, Java

Web: React, TypeScript, Next.js, Vite, Supabase

Databases: SQL, SQLite, PostgreSQL

ML / DS: Pandas, NumPy, EDA, Scikit-learn, TensorFlow, SHAP

Tools: Git, GitHub, Jupyter, Vercel, Flask, FastAPI

LANGUAGES

English · Telugu · Hindi

ACHIEVEMENTS & ACTIVITIES

— Shortlisted — Smart India Hackathon 2025 (Internal Round) · Frontend Developer · Team Shark

— Participated — Radiothon Winter 2026 Hackathon · ML Engineer & Lead · Team Doom

— Active member, Data Science Club at VIT-AP University

— Open-source projects on GitHub (GokulM8)