Deepthi Addanki

Email: deepthiiaddanki@gmail.com
Portfolio: Deepthi's_Portfolio
LinkedIn: Deepthi's_LinkedIn
Github: Deepthi's_Portfolio

PROFESSIONAL SUMMARY

Artificial Intelligence & Data Science graduate with hands-on experience in machine learning, backend development, and real-time systems. Built predictive models and full-stack applications with a strong focus on practical problem-solving.

EDUCATION

B.Tech – Artificial Intelligence & Data Science
NBKR Institute of Science & Technology (Autonomous)
2021 – 2025
CGPA: 8.03

TECHNICAL SKILLS

Programming: Python, JavaScript, HTML5, CSS3
Backend: FastAPI, Django, REST APIs
Machine Learning: Scikit-learn, Random Forest, Gradient Boosting, Naïve Bayes, Logistic Regression
Data Tools: Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook
Databases: PostgreSQL, SQLite
Tools: Git, GitHub
Other: JWT Authentication, Leaflet.js, OpenStreetMaps

EXPERIENCE

Intern - ISRO – Sriharikota, India **Feb 2025 – Mar 2025**

- Worked on AI-based radar track data filtering to improve tracking accuracy.
- Processed and cleaned radar datasets using Python and data preprocessing techniques.
- Applied machine learning methods for noise reduction and pattern recognition.
- Assisted in enhancing reliability of radar data analysis workflows.

PROJECTS

Fleetrace – Real-Time Fleet Tracking System - https://fleetrace.vercel.app/signup
Tech: FastAPI, PostgreSQL (Supabase), HTML, CSS, JavaScript, Leaflet.js

- Developed a near real-time vehicle tracking system with live GPS visualization.
- Implemented JWT authentication and role-based routing with secure HTTP-only cookies.
- Built REST APIs for location updates using PostgreSQL UPSERT logic.
- Designed admin dashboard with dynamic map makers and vehicle status tracking.

Predictive Machine Failure Detection System - https://github.com/DeepthiAddanki/Major-Project
Tech: Python, Scikit-learn, Pandas, NumPy, Django

- Built a multi-class classification model to predict machine failure types using sensor data.
- Implemented Random Forest, Gradient Boosting, and Naïve Bayes models for comparison.
- Evaluated performance using Accuracy, Precision, Recall, and F1-score.
- Deployed predictive model using Django with interactive user interface.