Gautham D V

AI & ML Engineer | Python, TensorFlow, XGBoost, Scikit-learn

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Portfolio: https://gauthamdv.github.io/Portfolio

PROFESSIONAL SUMMARY

AI & ML Engineer with a B.E. in Artificial Intelligence & Machine Learning (2025) and hands-on experience building, evaluating, and deploying machine learning models. Proficient in Python, Scikit-learn, TensorFlow, and XGBoost, with strong skills in data preprocessing, feature engineering, and model evaluation. Experienced in developing end-to-end ML projects and lightweight AI applications using Flask, with a strong interest in solving real-world problems using AI.

SKILLS

Programming Languages: Python, SQL, Bash
Machine Learning: Machine Learning, KNN, Logistic Regression, SVM, Decision Trees, K-Means, XGBoost
Deep Learning: Deep Learning, CNNs, RNNs, Sequence Modeling
Frameworks & Tools: TensorFlow, Scikit-learn, Flask, Git, Linux, Jupyter
Core Concepts: Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Hyperparameter Tuning, Model Evaluation

EXPERIENCE

AI & ML Intern – Elevate Labs | Sep 2025 – Nov 2025

- Developed and evaluated machine learning models for classification and regression using KNN, SVM, Decision Trees, and XGBoost.
- Performed data preprocessing, feature engineering, and exploratory data analysis (EDA) to improve model performance.
- Evaluated models using Accuracy, Precision, Recall, ROC-AUC, RMSE, and R^2, ensuring robust validation.
- Maintained reproducible ML workflows using Git and version control best practices.

PROJECTS

Stickman Animation Generation using RNNs (2024)
GitHub: https://github.com/gauthamdv/StickmanAnimation-RNN
Built an RNN-based sequence model using MediaPipe pose keypoints to generate smooth stickman animations via recursive prediction.

Offline AI Assistant – CPU-Optimized LLM (2025)
GitHub: https://github.com/gauthamdv/offline-ai-assistant
Developed a Flask-based offline AI assistant capable of launching applications, running scripts, and executing system commands via natural language, optimized a 7B LLM for CPU-only inference.

Fraud Detection using XGBoost (2025)
GitHub: https://github.com/gauthamdv/fraud-detection-xgboost
Built an XGBoost-based fraud detection model on imbalanced data using feature engineering and evaluated it with ROC-AUC and Precision-Recall metrics.

EDUCATION

B.E. in Artificial Intelligence & Machine Learning – Acharya Institute of Technology | 2025 | CGPA: 8.69
XII (CBSE) – Sri Chaitanya Techno School | 2021 | 79.0%
X (CBSE) – Sri Chaitanya Techno School | 2019 | 91.8%

CERTIFICATIONS

- Python for Data Science, AI & Development – IBM (via Coursera)
- Machine Learning Introduction for Everyone – IBM (via Coursera)
- AI for Everyone – DeepLearning.AI (via Coursera)
- Introduction to TensorFlow for AI, ML & DL – DeepLearning.AI (via Coursera)
- Prompt Engineering for ChatGPT – Vanderbilt University (via Coursera)