GAUTHAM D V

AI/ML ENGINEER (GRADUATE)

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

PROFESSIONAL SUMMARY

B.E. in **Artificial Intelligence & Machine Learning (2025)** with hands-on experience in developing and deploying AI/ML solutions. Proficient in **Python**, **Scikit-Learn**, **TensorFlow**, **XGBoost**, and **Flask**, with strong foundations in data preprocessing and model evaluation. Quick learner and adaptable, passionate about solving real-world problems using AI.

EDUCATION

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

EXPERIENCE

AI & ML Intern – Elevate Labs **[Sep 2025 – Nov 2025]**

- Developed and evaluated ML models for classification, clustering, and regression using KNN, SVM, Decision Trees, and XGBoost.
- Performed data preprocessing, feature engineering, and EDA; assessed performance using Accuracy, Precision, Recall, ROC-AUC, RMSE, and R^2.
- Maintained reproducible workflows with Git.

SKILLS

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

PROJECTS

Stickman Animation Generation using RNNs (2024) **[** *https://github.com/gauthamdv/StickmanAnimation-RNN* **]**

Built an RNN model trained on MediaPipe-extracted pose keypoints to generate smooth stickman animations.
Implemented recursive sequence prediction for continuous and realistic motion generation.

Offline AI Assistant – CPU-Optimized LLM (2025) **[** *https://github.com/gauthamdv/offline-ai-assistant* **]**

Developed a Flask-based offline AI assistant capable of opening applications, running scripts, and executing system commands via natural language.
Optimized a 7B LLM for CPU-only deployment, ensuring privacy and lightweight performance.

Fraud Detection using XGBoost (2025) **[** *https://github.com/gauthamdv/fraud-detection-xgboost* **]**

Built an XGBoost-based fraud detection model with class imbalance handling and robust performance evaluation**.**

CERTIFICATIONS

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