

PANTAM DHANUSH PAVAN

+91 6309869276 | pantamdhanushpavan@gmail.com | linkedin.com/in/dhanush-pavan | github.com/dhanushpavann

EDUCATION

Malla Reddy University

Bachelor of Technology in Artificial Intelligence and Machine Learning (GPA: 8.81)

Hyderabad, India

June 2022 – Present

Sri Chaitanya College

Intermediate in Mathematics, Physics, and Chemistry

Hyderabad

Aug 2020 – May 2022

TECHNICAL SKILLS

Languages: Python, Go, Java, SQL, JavaScript, HTML, CSS, Bash

ML & Data Science: TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, Hugging Face

Web & APIs: React, Node.js, Flask, Django, FastAPI

MLOps & Tools: Docker, Kubernetes, MLflow, DVC, Git, GitHub

Monitoring & Cloud: AWS, GCP, Prometheus, Grafana

PROJECTS

Vehicle Insurance Response Prediction - MLOps Pipeline | *Python, MongoDB, AWS, Docker, GitHub Actions*

- Engineered an end-to-end MLOps pipeline on 762K+ records for vehicle insurance response prediction.
- Built fault-tolerant MongoDB ingestion and validation workflows, preventing bad data corrupting training runs.
- Automated S3 model versioning with F1-based gating, promoting a new model with 2.8% higher F1 to production.
- Shipped a CI/CD pipeline on AWS EC2 using Docker and GitHub Actions, deploying in under 2 minutes.

Lightweight Hybrid Log Anomaly Detector | *Python, Scikit-learn, CustomTkinter, SQLite, LLM*

- Built a hybrid log anomaly detector combining heuristic scoring with lightweight ML (IsolationForest and TF-IDF)
- Implemented real-time log monitoring with threaded parsing and live alert streaming to a CustomTkinter GUI.
- Developed automated response rules loaded from SQLite with priority handling and rate limiting.
- Added LLM forensics via OpenRouter with Pydantic JSON validation and persisted summaries/recommendations

Sentiment Stocks - Predicting stock movement via News Headlines | *Python, Streamlit, Scikit-learn, Git*

- Built a web app to predict stock price movements based on news headlines using NLP and ML
- Achieved 84.92% accuracy using TF-IDF vectorization with logistic regression in Scikit-learn
- Used NLTK for text preprocessing, handling stopword removal and lemmatization in news headlines.
- Serialized trained models using Joblib and used Git for version control

Title Genie - Title Generator | *Python, Django, Gemini API, SQLite, Git*

- Designed and developed TitleGenie, a full-stack web application using Django and Gemini API to generate context-aware YouTube video title suggestions.
- Engineered Gemini API integration via a custom prompt pipeline for multi-variant title generation.
- Built a responsive frontend with adaptive theming and state persistence using CSS Grid and Flexbox

ACHIEVEMENTS

- Won a local hackathon for developing Title Genie, an AI-driven title generator enhancing YouTube content visibility through smart, context-aware suggestions.
- Earned 17 Google Cloud skill badges, showcasing expertise in AI/ML workflows, cloud automation, and scalable infrastructure.

CERTIFICATIONS

- Coursera: *AI Workflow: Business Priorities and Data Ingestion*
- Google Cloud: *Prompt Design in Vertex AI*
- Google Cloud: *Monitoring in Google Cloud*