JAYASRI NV

Chennai | jayasrinavaneethan2004@gmail.com | 7305096962

Professional Summary

Detail-oriented Data Science student with a strong foundation in data analysis, machine learning, and statistical reasoning. Passionate about applying data-driven approaches to solve real-world problems and support informed decision-making. Possesses a research-oriented mindset, adaptability to emerging technologies, and the ability to work effectively in collaborative environments, with a continuous focus on learning and professional growth.

Skills Summary

Languages: Python, SQL

Databases: MongoDB, PostgreSQL

AI Techniques: Machine Learning Algorithms, Feature Selection, Hyperparameter Optimization, Malware Detection, Exploratory Data Analysis (EDA), Geospatial Analysis, Reinforcement Learning

Soft Skills: Leadership, Adaptability, Crisis Management, Receptiveness to Feedback, Attention to Detail

Experience

Product Development Intern, Unifo Pvt. Ltd. – Chennai April 2025 – July 2025

• Designed and conducted comparative infrastructure experiments focusing on training vs. inference performance for AI/ML workloads.
• Evaluated and benchmarked performance across multiple hardware platforms, including CPUs, GPUs, and TPUs.
• Analyzed cloud versus on-premise deployment trade-offs for large language model (LLM) workloads to optimize cost and efficiency.
• Collaborated within a cross-functional AI, ML, and Ops team to recommend optimal infrastructure configurations for enterprise-scale AI systems.

Projects

Boutique Management Database cum Website

- Developed a virtual boutique management system with an integrated database to handle product listings, customer records, and transaction management..
- Implemented backend database operations and ensured smooth interaction between the website and database for real-time data handling.
- Tools/Techniques Used: SQL, Python, MongoDB, PostgreSQL

Research on Malware Detection System

- Conducted an analytical study on Android malware detection using machine learning classification techniques.
- Applied feature selection methods and hyperparameter optimization to improve model performance and classification accuracy.
- Tools/Techniques Used: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Exploratory Data Analysis & Geospatial Visualization on Zomato Dataset

- Performed in-depth exploratory data analysis to study restaurant distribution, customer preferences, and location-based trends.
- Created geospatial visualizations to identify high-density restaurant zones and customer hotspots using mapping techniques.
- Tools/Techniques Used: Python, Pandas, GeoPandas, Matplotlib, Seaborn, Folium.

Self-Driven Car for Indian Roads Using Reinforcement Learning

- Designed a reinforcement learning–based autonomous driving system to navigate complex and unstructured Indian traffic scenarios.
- Trained an AI agent using a simulation environment to learn optimal driving policies through continuous interaction and reward feedback.
- Tools/Techniques Used: Python, Reinforcement Learning, PPO, CARLA Simulator.

Papers (Yet to be published)

- Sentiment Analysis in FinBERT for Stock Market Text Data using Global News Data
- Enhanced Stock Prediction Using a Hybrid LSTM-CNN Algorithm and Explainable AI with YFinance Data

Education

Amrita Vishwa Vidyapeetham, Coimbatore
5-Year Integrated M.Sc. in Data Science (2022 – Present)
CGPA: 7.69
Coursework: Data Analysis and Statistics, Machine Learning, Data Structures and Algorithms, Database Management Systems, Data Visualization, Reinforcement Learning

Extra Curricular Activities

- Dancer in Natyasudha, Amrita Vishwa Vidyapeetham
- Asia Book of Records holder in Bharathanatyam
- Guinness World Record holder in Bharathanatyam.
- A+ Grade in Bharathanatyam Grade-Level 3 Examination
- 3rd Place – Group Dance, Amritotsavam 2023