GAMPA BHAVANI SHANKAR

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Profile Summary

Motivated and detail-oriented individual with hands-on experience in data analysis and data visualization. Developed real-time projects using Java, Python, Sql and Tableau, with a strong focus on building dashboards and predictive models. Eager to apply technical and analytical skills in real-world scenarios.

Technical Expertise

- **Languages**: Python, Java, SQL
- **Databases**: MySQL, MongoDB (basic)
- **Framework:** FastAPI, Springboot
- **Data Science:** EDA Libraries Pandas and Numpy, Scikit-learn, LLMs
- **Data Visualization**: Matplotlib, Seaborn, Plotly
- **Tools**: Git, VScode, Intellij, Google Colab, Tableau

Projects

Logs Classification System 🔗

Developed a hybrid log classification system, combining three complementary approaches to handle varying levels of complexity in log patterns. The classification methods ensure flexibility and effectiveness in processing predictable, complex, and poorly-labeled data patterns.

Key Responsibilities:

- Developed a hybrid log classification system integrating Regex, Logistic Regression and LLM to effectively handle logs with varying levels of complexity.
- Deployed a FastAPI server to process log data via RESTfull APIs, enabling seamless integration with existing systems.
- Improved log classification accuracy 40% through the hybrid architecture compared to the rule-based system.

Car Price Prediction Using Machine Learning 🔗

Created a machine learning regression model to predict used car prices with 90% accuracy. Cleaned and analyzed the dataset, engineered features like car age, and trained models like Linea. Deployed a web demo using Streamlit.

Key Responsibilities:

- Conducted data cleaning, EDA, and implemented regression algorithms such as Linear Regression and Random Forest.
- Evaluated model using RMSE and R^2 score and interpreted feature importance to understand key price drivers.
- Deployed the trained model using Streamlit for real-time predictions on a web-based interface

Sales Performance Dashboard using Tableau

Created a sales performance dashboard in Tableau to analyze year-over-year trends in sales, profit, and quantity sold. Blended multiple datasets (orders, customers, products, regions), applied calculated fields, and built KPI. Identified high-performing sub-categories and regional gaps to support strategic business decisions.

Accomplishments:

- Used calculated fields to implement year-over-year (YoY) comparisons and conditional logic to highlight growth or decline with color indicators and symbols.
- Performed data cleaning and blending from multiple sources including customer, order, product, and location datasets.
- Published dashboard to Tableau Public to showcase project work and enable public access to interactive visual analytics.Dashboard Link

EDUCATION

Scaler Academy [ongoing]
Mastering data science & Machine Learning
SJB Institute Of Technology(VTU) **2023**
BE in Computer Science