JAYSRI SARAVANAN

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SUMMARY

Full-stack developer with 1 year of experience in building scalable applications and a strong passion for data science. Skilled in problem-solving and eager to apply analytical thinking and machine learning techniques to drive data-driven decision-making and innovation. Committed to continuous learning and leveraging existing development expertise to excel in data science roles.

EDUCATION

Advanced Professional Programming and Master Data Science   Jan 24 - Aug 24
IIT-M GUVI

B. Tech Information Technology   2019 - 23
SRM Valliammai Engineering College

SKILLS

Programming Languages: Python, SQL, HTML, CSS | **Libraries & Frameworks**: Numpy, Pandas, Matplotlib, Scikit-Learn, Seaborn,Flask | **Data Analysis & Visualization**: Power BI, Tableau | **Machine Learning**: Regression, Classification | **Deep Learning & NLP**: TensorFlow, Keras, Transformers | **Databases**: SQL, MongoDB | **Version Control**: Git

PROJECTS

Predictive Maintenance Manufacturing Equipment | LINK
   Tools: Python, MongoDB, XGBoost, Random Forest, Neural Networks, SMOTENC
   o   Built a predictive maintenance system to classify equipment failures (binary: failure/not, multi-class: failure type).
   o   Stored and processed large datasets in **MongoDB**, performed data pre-processing, scaling, and handled class imbalance using **SMOTE**.
   o   Implemented and compared models (XGBoost, Random Forest, Neural Networks), selecting XGBoost for its superior performance with a test accuracy of **98.4%.**

Predicting Car Prices Using Machine Learning | LINK
   Tools: Python, PySpark, RandomForestRegressor, StandardScaler, Pickle
   o   Built a predictive model using **PySpark** to estimate car prices based on features like age and kilometers driven, achieving $R^2 = 0.9947$.
   o   Developed a scalable ML pipeline with feature engineering and a **Random Forest Regressor**, and deployed the model using Pickle for real-world applications.
   o   Conducted analysis to identify key factors influencing car prices, ensuring actionable insights.

AI-Powered Tutorial Q&A Chatbot | LINK
   Tools: Pytorch, Hugging Face Transformers, Flask, JSON, NLP
   o   Developed a real-time AI-powered chatbot using GPT-2 and NLP to answer questions based on Python programming tutorial content.
   o   Built an interactive Flask web interface that allows users to engage with the chatbot and receive accurate, contextually relevant answers.

EXPERIENCE

Packaged App Development Associate   Aug 23 - present
Accenture
   o   Developed and maintained web applications using Angular, MySQL, and C#.
   o   Designed and implemented backend services using C#, enhancing system performance and reducing response time.
   o   Managed database operations using SQL optimizing queries to ensure data integrity and improve application performance.

CERTIFICATION

   o   Master Data Science Program   Aug 24
   o   Deep Learning Fundamentals   Dec 24
   o   Flask   Jan 24