Vamsi Krishna Paladugu

572-208-2891 | vamsikrishna17@usf.edu | linkedin.com/in/vamsikrishnapaladugu

Technical Skills

Languages: Python, Java, R, C/C++, SQL, JavaScript, HTML/CSS
Databases: Microsoft SQL Server, MySQL, Oracle DB, PostgreSQL, SQLite, MongoDB, neo4j
Tools & Platforms: Tableau, Power BI, Git, Docker, Google Cloud Platform, VS Code, Visio, Draw.IO, AWS S3 , Microsoft Azure, UiPath, Automation Anywhere, PyCharm, Eclipse
Libraries: Pandas, NumPy, NLTK, Keras, Tensorflow, Scikit-Learn, Matplotlib, Seaborn, Plotly

Experience

Data Scientist Jan 2022 – July 2023
Tata Consultancy Services Ltd *Hyderabad, India*

- Orchestrated and developed end-to-end predictive machine learning models to detect and distinguish discrepant information in the patient data, achieving a remarkable 92% accuracy using Random Forest with finely tuned hyperparameters.
- Reduced processing time for large datasets through SQL query and index optimization, resulting in a 35% decrease in query execution time, enhancing overall system performance.
- Built a Chatbot using NLP, which analysed past inputs from users and created responses to queries.
- Provided real time business insights and created data visualizations using Tableau for internal stakeholders.

Robotic Process Automation Developer July 2019 – Dec 2021
Tata Consultancy Services Ltd *Hyderabad, India*

- Implemented a Citrix automation application to fetch the network usage reports from a remote server and communicating to the stakeholders (Ericsson) after processing those reports.
- Implemented a bot that performs automatic data entry in a large healthcare website using Automation Anywhere, reducing the manual workforce by more than 75%.
- Involved in multiple phases of a project ranging from gathering requirements and designing solutions to developing, testing, and deploying to production.
- Led Intelligent Process Automation team of 6 members and Single Point-of-contact (SPOC) for the client for any technical or functional concerns.

Projects

Analyzing Daily Website Traffic Patterns Using Time Series Data Aug 2023 – Oct 2023

- Analyzed historical trends in daily website traffic using time series analysis techniques including ARIMA, LSTM and regression models. The goal was to identify patterns, trends, and seasonality in the data and develop a statistical model forecasting future website traffic
- The project provides website owners and managers with insights to improve website performance, increase user engagement, and understand the impact of external factors on website traffic trends.

Assessing Climatic Shifts' Effects on Hurricane Time Series Data Oct 2023 – Nov 2023

- Built a real-time dashboard, conducted time-series analysis with Python and Tableau to investigate the link between climate changes and hurricane intensity.
- Employed time-series forecasting algorithm to predict future hurricanes, offering valuable insights for disaster preparedness.

Hospital Database Management System Aug 2023 – Nov 2023

- Developed entity relationship and relational schema diagrams to create an US Hospital database system.
- Created database system, long-run stored procedures and queries for effective data retrieval.

Education

University of South Florida Tampa, FL
Master of Science in Business Analytics and Information Systems (GPA - 3.78/4.00) *Aug 2023 – May 2025*

Vignan's Foundation for Science, Technology and Research Guntur, India
Bachelor of Technology in Computer Science and Engineering (GPA - 3.62/4.00) *June 2015 – July 2019*