

SUPRIYA SAGIRAJU

7918 N Mac Arthur Boulevard, Irving, Texas, 75063.

(940) 977-2722 | supriyasai.work@gmail.com | www.linkedin.com/in/supriya-varma-2710951aa/

Education

University of North Texas - Denton, Tx | Master of Science

Aug 2022 - Present

Advanced Data Analytics

Gandhi Institute of Technology and Management - Visakhapatnam | Bachelor of Science

July 2018 – May 2021

Biotechnology

Technical Skills

- **Programming Languages:** Python, R, java, Jira, Excel, SQL, PL/SQL, Tableau
- **Operating Systems:** Windows, UNIX, LINUX
- **Databases/Tools:** TSQL, MySQL, MongoDB, SSRS, SSIS, SSMS, Visual studio, Eclipse
- **Cloud:** AWS, Microsoft Azure, GCP
- **Web Technologies:** HTML5, XML, DOM, JavaScript, TypeScript
- **Machine Learning:** Linear regression, Logistic Regression, DecisionTree, Random Forest, K Nearest Neighbor, k mean, RNN

Professional Experience

Data Engineer

Amazon Development Centre India Pvt Ltd- Hyderabad, AP

Oct 2021 - June 2022

- Built test strategies and test suites, then developed and run them to verify data extraction, transformation, and loading in Microsoft Excel and SQL.
- Created and maintained SQL Server scheduled jobs and executed stored procedures to extract data from Oracle into SQL Server.
- Built predictive models using scikit-learn library, including functions such as `train_test_split()`, `Random Forest Classifier()`, and `GridSearchCV()`.
- Developed and maintained business applications using MS-SQL Server, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS), and SQL Server Analysis Services (SSAS).
- Generated reports on predictive analytics using Python and Tableau, including visualizing model performance and prediction results.
- Developed analytics, machine learning models, and visualizations in Tableau, driving performance and providing insights from prototyping to production deployment and product recommendation and allocation planning.

Academic Projects

Sentiment Analysis of Twitter Data:(Python, Tensorflow, keras)

- The objective of this project was to analyze the sentiment expressed in tweets related to a specific topic and gain insights into public opinion and attitudes on social media.
- Natural language processing (NLP) techniques were employed for sentiment analysis. Built sentiment classification models using machine learning algorithms like Naive Bayes, Support Vector Machines (SVM) or Recurrent Neural Networks (RNN).
- The sentiment analysis of Twitter data provided valuable insights into the public sentiment, opinions, and attitudes regarding the specific topic. These insights could be utilized for brand monitoring, reputation management, customer feedback analysis, or tracking the impact of events or campaigns on social media.

Predictive analysis for Heart Stroke in Patients:(R, Deep learning, Regression)

- This project is aimed to develop a predictive model to determine the likelihood of heart stroke in patients based on various health parameters and patient information. The goal was to identify high-risk individuals for early intervention and preventive measures.
- The trained model was evaluated on the testing set using performance metrics such as accuracy, precision, recall, and F1-score. The receiver operating characteristic (ROC) curve and area under the curve (AUC) were used to assess the model's predictive power and determine an appropriate classification threshold.
- Based on the model predictions, recommendations could be provided to healthcare professionals for identifying high-risk patients and implementing preventive strategies, such as lifestyle modifications or targeted medical interventions.