Navya Teja Ogirala

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github.com/navyaogirala Available from *May 2024 - Dec 2024*

Education

Old Dominion University **Expected Dec 2024**
Master of Science in Computer Science; GPA: 3.95 *Norfolk, VA*
Relevant Coursework: *Data Visualization, Intro to Datascience and Analytics, Natural Language Processing(NLP), Human Computer Interaction(HCI), Intelligent Interactive Systems*

Amrita Vishwa Vidyapeetham **Jul 2016 – Jun 2020**
Bachelor of Technology in EEE; GPA: 3.9 *Bangalore, India*

Experience

Old Dominion University **Aug 2023 – Present**
Graduate Teaching Assistant *Norfolk, VA*

- Facilitated engaging and interactive lab sessions, guiding students through hands-on programming exercises, fostering a collaborative learning environment
- Employed innovative teaching tools, to enhance students' understanding resulting in a 15% increase in student participation and comprehension

Infosys Limited **Jan 2021 – Nov 2022**
Systems Engineer, Data Analytics *Chennai, India*

- Elevated marketing strategies with a customer-centric approach to construct a predictive model for Customer Lifetime Value (CLV). Achieved a 15% boost in ROI through targeted initiatives, fostering improved customer retention and profitability
- Revolutionized revenue streams through strategic KPI analysis, implementing Redshift for data-driven insights, resulting in a remarkable 15% revenue boost
- Transformed business insights with proactive predictive analytics, leveraging Tableau to accelerate data flows, detect trends, and boost accuracy by 25% for informed decision-making
- Orchestrated GCP and SQL Server integration, slashing lead time by 30% for rapid response to Operations team needs; optimized workflows, resulting in a 20% boost in operational efficiency

Projects

COVID-19 Trend Analysis and Visualization

- Conducted a detailed study on COVID-19 patient dataset of US states, emphasizing on cases, deaths, and vaccination rates using Python, ensuring data integrity and accuracy
- Implemented a strategic Exploratory Data Analysis (EDA) in Tableau to uncover insights into COVID-19 trends, formulating key questions exploring the correlation between cases and vaccination rates across states
- Engineered impactful explanatory visualizations, illustrating trends in COVID-19 cases concerning changes in vaccination rates, achieving significant time and effort savings by 71% through strategic graph plotting in Tableau

Real-time Healthcare Analytics Dashboard

- Integrated diverse datasets from various sources, including CMS databases, operational metrics, and Medicare contract requirements
- Optimized data workflows by utilizing SQL for ETL processes, ensuring clean and structured integration of raw data. Applied K-means algorithm to unearth patterns and trends in large datasets
- Resulted in a 20% increase in data-driven decision-making efficiency, allowing stakeholders to access and interpret critical metrics seamlessly

Loan Risk Assessment Model

- Developed a predictive model for loan risk assessment using Random Forest and XGBoost classifiers in R, leveraging customer credit scores, payment history, and loan amounts, to predict default probabilities
- Optimized model using grid search and ROC analysis, reducing bad loan issuance by 20%. Presented complex model insights to stakeholders using R's ggplot2

Movie Genre Prediction Using Python

- Realized a substantial 30% boost in the True Positive Rate (TPR) by refining the accuracy of a Movie genre prediction model through the application of data wrangling techniques, such as tokenization and stop word removal
- Analyzed various classifiers using TF-IDF, (Bag Of Words)BoW revealing that BoW with logistic regression excels, demonstrating a balanced performance with high precision and recall
- Identified a substantial 25% improvement in recall for BoW with logistic regression through visualizations

Skills

Languages: Python, C, R, SQL
Technical skills:ML/DL Algorithms, Model Development, Model Deployment, Data Analysis, Data Visualization
Frameworks: TensorFlow, PyTorch, PySpark, Numpy, Pandas, Matplotlib, OpenRefine
Tools: Microsoft Excel, Powerpoint, GCP, Tableau, Redshift, PowerBI, NLTK, NLP
Soft skills: Data-driven, Communication, Strategic Thinking, Team Work, Attention to Detail