Sai Sudheer Neelam

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Data Analyst

Skills

Languages: C Programming, Python, R, SQL, JavaScript.

Technologies & Tools: Excel, Power Point, Tableau, Power BI, HTML, CSS, Visual Studio, Selenium, Google Analytics, Git.

Methodologies: ETL Pipelines, Data Modeling Techniques, Statistical Methods.

Professional Experience

Key Pixel — Aug 2024 - Present

Role: Software Developer

Responsibilities:

- Design and maintain scalable data pipelines (**ETL**) and analytical data models to support business reporting and ad hoc analysis, ensure reliability, version control, and documentation.
- Participate across the analytics lifecycle requirements gathering, data ingestion, transformation, modeling, testing, deployment, and post launch monitoring of data quality.
- Optimize performance of queries and dashboards (indexes, partitioning, caching, query rewrites) to reduce latency and improve reliability for complex business processes.
- Build and maintain BI assets (**Power BI**) including reusable datasets, governed measures, and stakeholder friendly dashboards with drill downs and alerts.
- Implement data quality controls (profiling, validation tests, anomaly detection, freshness checks) to maintain trust in reported numbers.
- Deliver actionable insights via exploratory analysis, cohorting, funnel and trend analyses, communicate findings with concise visuals and stakeholder ready narratives.

TCS — Aug 2021 - Aug 2022

Role: System Engineer

Responsibilities:

- Developed and maintained full stack web applications and services (Java/J2EE with **HTML, CSS, JavaScript**), ensuring robust data flows from front end to databases and performing thorough troubleshooting, strengthening, and analytical thinking in data intensive scenarios.
- Developed automated test scripts using **Selenium** to validate application functionality, verifying data correctness and reliability in outputs, an experience that sharpened attention to detail and data validation skills.
- Completed intensive training (TCS Xplore/Initial Learning Program) covering core technologies (**Java programming**, **SQL** databases) and industry domain fundamentals, demonstrating adaptability and a commitment to continuous learning an asset in fast paced data analytics environments.

- Executed data cleansing and migration from legacy systems to modern databases, ensuring high data quality and integrity during system transitions (**ETL** methods) a critical skill for data driven projects.
- Built strong database management and querying skills by working with **SQL** based systems and writing efficient stored procedures and triggers to manipulate data, which underpins effective data analysis and reporting.

Educational Details

University of Memphis — Aug 2022 - May 2024

MS in Information Systems — ***CGPA: 3.25/4***

Relevant Coursework: Information systems and their roles and applications in global enterprises, data mining, artificial neural networks, data warehousing, expert systems, knowledge management, characteristics and design of schemas and subschemas for hierarchical, network, and relational data models, Python programming, regression analysis, machine learning.

Vignan's Lara Institute — Aug 2017 - Aug 2021

B. Tech, Electrical & Electronics Engineering — ***GPA: 6.92/10***

Coursework: Engineering Mechanics, Mathematics, Data Structures with C programming, Electrical Circuits, Power Electronics and Control Drives, Power System Operation & Controls, Control Systems, Electrical Measurements, Basic Electronics & Devices

Project Works

Peer-to-Peer Loan Analytics — 2024

Collaborated with a teammate to analyze loan data from a leading P2P lending platform, focusing on developing predictive models for loan default risk assessment.

Contributions:

Data Cleaning and Preparation:

- Conducted comprehensive data cleaning and preprocessing using Excel and Python, applying techniques like imputation to address missing values and ensure data integrity.
- Navigated challenges in attribute selection, ensuring the removal of irrelevant or incomplete features for a more robust dataset.

Analysis and Modeling:

- Analyzed loan features and borrower profiles through exploratory data analysis (EDA) to identify key predictors of loan defaults.
- Built and evaluated predictive models using Gradient Boosting, achieving high precision and recall in certain classes while pinpointing improvement areas for minority class predictions.

Collaborative Insights:

- Provided actionable insights to enhance lending strategies by optimizing borrower attributes

influencing loan outcomes.

- Collaborated with a teammate to design an analytical framework supporting informed decision-making in risk management.

Heart Disease Prediction 2023

Developed a machine learning model to predict heart disease risk based on patient data, focusing on identifying key factors influencing heart disease.

Contributions:

Data Cleaning and Preprocessing:

- Led the data cleaning process, ensuring consistency and handling potential errors using Excel.
- Prepared the dataset by identifying relevant features and addressing imbalances in the data.

Data Visualization and Analysis:

- Performed detailed visual analysis using Tableau, uncovering insights such as the correlation between smoking, BMI, age, and heart disease risk.
- Highlighted patterns such as the higher prevalence of heart disease in older age groups and male patients, as well as the connection between physical activity levels and heart health.

Collaborative Model Evaluation:

- Contributed to the group's final evaluation and selection of the Logistic Regression model as the best-performing model based on misclassification rates and overall predictive accuracy.

Certificates

- Google Analytics Certificate from Google Skill Shop Online Certification Course.
- Programming, Data Structures & Algorithms with python from NPTEL Online Certification Course.
- Problem solving through programming in C from NPTEL Online Certification Course.
- The Joy of Computing using Python from NPTEL Online Certification Course.