SAI SRI HARSHA KUMBAM

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Baltimore, Maryland - 21229, United States

EDUCATION

University of Maryland Baltimore County(UMBC)

Masters in Information Systems

o GPA: 3.70/4.00

January 2023 - December 2024

Baltimore, United States

Geethanjali College of Engineering and Technology

Bachelor of Technology o GPA: 3.67/4.00

August 2017 - June 2021 Hyderabad, India

Hyderabad, India

EXPERIENCE

Cognizant

August 2022 - *January* 2023

Programmer Analyst

· Conducted data analysis on PostgreSQL databases, identifying optimization opportunities that improved data storage and retrieval efficiency by 15%

- Developed automation scripts in Python to streamline ETL processes, reducing manual data handling and improving workflow efficiency.
- · Created dashboards and reports using Tableau and Python, providing stakeholders with actionable insights on system performance and trends.
- Ensured data integrity and security during Java-based application migration, preserving data accuracy throughout system upgrades.

 Cognizant August 2021 - July 2022

Programmer Analyst Trainee

Hyderabad, India

- Conducted exploratory data analysis (EDA) on large datasets to identify patterns and trends, providing actionable insights that improved stakeholder decision-making.
- Developed and maintained Python-based automation scripts for data cleaning and processing, reducing data processing time by 20%
- · Created dynamic dashboards and data visualizations using Tableau and Python, delivering insights on key performance metrics to stakeholders
- · Collaborated in Agile practices, focusing on continuous improvement in data handling, reporting processes, and team collaboration.

 Cognizant March 2021 - July 2021 Intern Hyderabad, India

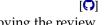
- Supported data validation and cleaning processes, ensuring high data quality and consistency for subsequent analysis.
- Developed automation scripts in Python to streamline repetitive data processing tasks, contributing to improved operational efficiency.
- · Conducted exploratory data analysis (EDA) and data profiling to identify trends and support insightful reporting.

PROJECTS

Modeling Quality of Suggestions

August 2023 - December 2023

Tools: [Python, Pandas, Scikit-learn, Tableau]



- Developed a recommendation optimization system for an HR company's suggestion forum, improving the review process for employee suggestions.
- Implemented machine learning techniques to improve recommendation accuracy based on engagement metrics, reducing manual review workload by 30%.
- Created interactive dashboards and visualizations with Tableau and Python, facilitating clear and actionable insights for stakeholders.
- · Applied anomaly detection methods to ensure data integrity and uncover insights on factors affecting suggestion quality.

• Baltimore Crime Analysis

Sep 2023 - Oct 2023

Tools: [Python, SQL, Tableau, Geospatial Mapping]

 Developed a centralized crime data system to provide actionable insights for law enforcement, improving response efficiency.

- Implemented data cleaning techniques to address null values, missing data, and duplicates, ensuring the integrity of the analysis.
- Created interactive visualizations including heat maps and geospatial maps, facilitating data-driven decision-making.
- Applied advanced data analysis methods to study crime-type distributions over time, enhancing strategic planning for law enforcement.

• Predictive Analysis for Airline Passenger Satisfaction

Feb 2023 - May 2023

Tools: [Python, SQL, Scikit-learn, Excel]



- Developed predictive models to analyze an airline dataset and forecast customer satisfaction, enhancing strategic decision-making.
- Implemented data cleaning and normalization procedures to ensure dataset accuracy and consistency.
- · Addressed missing data using appropriate handling techniques to maintain analysis integrity.
- Provided strategic recommendations based on predictive insights, enabling targeted improvements to customer experience and satisfaction.

SKILLS

- Programming Languages: Python, Java, C, SQL, JavaScript, HTML, CSS
- Web Technologies: React, HTML, CSS, JavaScript, Tableau
- Database Systems: PostgreSQL, Microsoft SQL Server, Oracle
- Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Tableau
- DevOps & Version Control: Git, Jenkins, Azure DevOps
- Specialized Area: Data Cleaning, Data Visualization, Predictive Analytics, Machine Learning
- Mathematical & Statistical Tools: Statistical Analysis, Data Normalization, Anomaly Detection, Feature Importance
- Other Tools & Technologies: IRA, Eclipse, Visual Studio, SoapUI, Postman
- Research Skills: Data Analysis, Exploratory Data Analysis (EDA), Feature Engineering, Decision-Making Methodologies, Anomaly Detection