

SAI SRI HARSHA KUMBAM

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Baltimore, Maryland - 21229, United States



EDUCATION

- **University of Maryland Baltimore County(UMBC)** January 2023 - December 2024
Masters in Information Systems
◦ GPA: 3.70/4.00 Baltimore, United States
- **Geethanjali College of Engineering and Technology** August 2017 - June 2021
Bachelor of Technology
◦ GPA: 3.67/4.00 Hyderabad, India

EXPERIENCE

- **Cognizant** August 2022 - January 2023
Programmer Analyst Hyderabad, India
 - 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