

SAI SRI HARSHA KUMBAM

skumbam1@umbc.edu | saisriharshakumbam.com

 saisriharshakumbam |  saisriharshakumbam |  saisriharshakumbam |

Baltimore, Maryland - 21229, United States

OBJECTIVE

Seeking a Data Analyst position to leverage my expertise in data analysis, statistical methods, and data visualization. Aiming to contribute to innovative data-driven projects and support decision-making processes through effective analysis and reporting, with a focus on improving business outcomes and operational efficiency.



EXPERIENCE

- **Cognizant** August 2022 - January 2023
Programmer Analyst Hyderabad, India
 - Worked on the development and upkeep of software applications using Java
 - Conducted comprehensive code reviews, unit testing, and debugging activities resulting in a 20% improvement in code quality and a 15% reduction in post-release defects.
 - Conducted analysis on PostgreSQL database performance, identifying optimization opportunities that led to more efficient data storage and retrieval.
 - Worked with the client's team on a Java application upgrade, effectively migrating data and preserving system compatibility with minimal operational disruption.
- **Cognizant** August 2021 - July 2022
Programmer Analyst Trainee Hyderabad, India
 - Performed ad-hoc and exploratory data analysis, presenting findings and recommendations to stakeholders.
 - Developed and maintained automation scripts and data pipelines, optimizing data workflows.
 - Actively participated in Sprint planning, daily stand-up meetings, and retrospective sessions as part of Agile software development practices, fostering collaboration and continuous improvement within the team.
- **Cognizant** March 2021 - July 2021
Intern Hyderabad, India
 - Collaborated with senior developers and testers on data-driven projects, contributing to data validation tasks and enhancing the accuracy of data processing
 - Created dashboards and visualizations using Tableau and Python libraries (matplotlib/seaborn), effectively presenting data insights to inform decision-making.
 - Proactively identified and resolved data issues, contributing to project success and continuously improving analytical skills through research and practical application.

EDUCATION

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

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