Ram Charan

+1 716-256-7258 | rampolisettius@gmail.com | LinkedIn | GitHub

EDUCATION

State University of New York at Buffalo (UB) **Buffalo, NY**
Master of Science in Data Science *Sept 2022 – Jan 2024*

AREAS OF EXPERTISE

- Exploratory Data Analysis
- Data Management
- Statistical Tests and Analysis

- Predictive Analytics
- Longitudinal Research
- Cosmetic Dermatology

- Statistical Modeling
- Evidence based Intervention
- Mental Health Analysis

WORK EXPERIENCE

JerseyStem.org **Florham Park, NJ**
Data Analyst *Mar 2024 - Present*

- Managed large-scale relational databases using SQL, ensuring data integrity and availability for analysis.
- Implemented automated data pipelines using SQL, Python, and Alteryx, significantly enhancing data collection and analysis to inform decision-making and improve program effectiveness.
- Provided technical support for data management systems, optimizing efficiency of statistical analyses and reporting.
- Launched daily reporting systems with AppSheet, Tableau, and Google Data Studio, providing actionable insights and enhancing organizational accountability.

Amazon **Hyderabad, India**
Transportation Specialist, North America - Amazon Transportation Services *Nov 2020 – Jul 2022*

- Designed and deployed an ETL framework with Amazon Glue, integrating over 10 data sources to enhance data accuracy by 40% and streamline information flow.
- Utilized Python and SQL to automate equipment scheduling and optimize routes, cutting logistical costs by $2M and reducing empty miles by 8% annually.
- Led a cross-functional team in utilizing complex SQL queries on Amazon Redshift, enhancing system efficiency by 40% and reducing carrier fraud by 15%.

PROJECTS

Crow's Feet Severity Reduction Study

Python, Exploratory Data Analysis, Wilcoxon Signed-Rank Test, Statistical Analysis

- Conducted a comprehensive 28-day study evaluating the effectiveness of an intervention in reducing crow's feet severity among diverse demographic groups, emphasizing personalized treatment approaches in cosmetic dermatology.
- Employed Wilcoxon signed-rank tests to evaluate treatment efficacy, demonstrating statistically significant reduction in crow's feet severity and highlighting variations in treatment response across different sexes and racial backgrounds.

Exploratory Data Analysis on Substance Use Disorders, Violence, and Liver Diseases

R, Tableau, Hypothesis Testing, Statistical Modeling

- Analyzed correlations between mental health, substance use disorders, and violence using R and advanced visualization techniques, revealing significant trends from 1980 to 2014.
- Formulated and substantiated hypotheses on the effects of substance use disorders on self-harm and chronic liver diseases, emphasizing their explanatory power on violence and liver diseases for health policy.

SKILLS

Programming Languages: Python, R, SAS, SQL, JavaScript, Scala
Data Management and Analytics: REDCap, PostgreSQL, MySQL, MongoDB, Spark, AWS, PowerBI
Statistical Methods: Multivariate Analysis, Hypothesis Testing, Statistical Testing, Multiple, Regression Analysis
Machine Learning and Data Processing: TensorFlow, PyTorch, NLTK, ETL/ELT Processes, Kafka, Prefect, dbt