Sumukh Ramagiri
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EDUCATION

Master's in Business Analytics → **University of New Haven**, West Haven, CT **2023 - 2024**
Bachelors in Electronics and Computer Engineering → **SNIST**, Hyderabad, India **2018 - 2022**

PROFESSIONAL EXPERIENCE

Aganitha cognitive solutions
Data Analyst, Hyderabad, India **Aug 2020 - Dec 2022**

- Designed and implemented advanced processes and solutions for data and text mining using SQL and Python. Enhanced data mining efficiency by 30%, enabling deeper analysis and more informed business decisions.
- Applied statistical analysis techniques to structured and unstructured data from multiple disparate sources. Utilized tools like R and Python to gain insights into key business problems, leading to a 25% improvement in operational decision-making.
- Provided comprehensive healthcare analytics support, including predictive analytics, statistical analysis, data and text mining, data validation, and prescriptive analysis. Utilized a broad set of tools and technologies to generate actionable insights, resulting in a 20% improvement in patient care strategies and outcomes.
- Developed effective key performance indicators, management dashboards, and balanced scorecards using PowerBI. These tools provided enhanced insights and improved organizational decision-making by 25%, leading to more informed strategic planning and resource allocation.
- Conducted detailed data analysis to identify patterns and trends using advanced statistical methods and data visualization techniques. Applied regression analysis, clustering, and time series forecasting to improve predictive accuracy for patient outcomes by 25%.
- Worked independently and as part of a team to deliver high-quality data analysis and reporting. Led cross-functional projects that resulted in a 20% increase in project success rates through effective collaboration and communication.
- Committed to data governance stewardship by ensuring data integrity, accuracy, and compliance with organizational standards. Developed and maintained data governance documentation, improving data quality and trust by 30%.

Data Analyst Intern, Hyderabad, India **Jan 2020 – Aug 2020**

- Conducted thorough stakeholder requirements gathering and translated them into actionable data analytics and visualization projects. Improved the relevance and impact of analytics solutions by aligning them closely with stakeholder needs, resulting in a 25% increase in stakeholder satisfaction.
- Conducted comprehensive data analysis using Excel, including pivot tables, VLOOKUPs, and complex formulas. Automated repetitive tasks with macros, increasing efficiency and reducing manual effort by 25%.

SKILLS

- **Programming:** R, Python, SQL, Javascript.
- **Data Visualization Tools**: Excel(VBA, AdHoc), Tableau, PowerBI, R Shiny, SSRS, Matplotlib, ggplot2.
- **ETL Tools**: PostgreSQL, MongoDB, Docker, Hadoop, Apache Kafka, Apache Spark, Apache Airflow, Kubernetes.
- **Analytical Skills:** Data Mining, Data Wrangling, Statistical Analysis, Predictive Modeling, SAS.
- **Machine Learning Libraries:** PyTorch, TensorFlow, Keras, NumPy, Pandas, Scikit-learn, Caret.
- **Cloud Technologies:** AWS (Redshift, S3, EC2, Lambda), BigQuery, Azure (SQL, Functions, Blob Storage)

KEY ACADEMIC PROJECTS

Facial Recognition and Emotion Detection https://github.com/sumukhSR3/facenemotion **May 2024**

- Utilized the FER2013 dataset to develop CNNs for classifying seven emotions, enhancing data with augmentation techniques like rotation, zooming, and flipping. Achieved 95% accuracy by optimizing convolutional layers, pooling, and dropout via grid search. Implemented real-time emotion detection with OpenCV, addressing data imbalances and overfitting through oversampling and dropout layers.

E-commerce sentiment analysis system **Jun 2022**

- Developed a sentiment analysis system using NLP, SQL, Python, and Docker to analyze Facebook Fan Page dialogs, enhancing data accuracy by 20%. Visualized insights with Tableau to support strategic decision-making. Automated data processing and reporting with Python, SQL, and Flask, streamlining dataset management and KPI tracking in Excel, which improved operational efficiency and provided timely updates.

Stroke rate prediction **Sep 2021**

- Utilized R programming to preprocess data for various tests and regression analyses. Conducted linear and logistic regressions, along with hypothesis testing, on the processed data. Visually inspected outcomes using the ggplot2 library in R to ensure clarity and precision in data interpretation.