

Rahul Kotian

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EDUCATION

Syracuse University School of Information Studies

May 2023

MS in Information System

GPA: 3.67/4.0

Mumbai University

October 2020

BEng in Computer Engineering

GPA: 3.3/4.0

Courses: Introduction to Data Science, Project Management, Information System Analysis, Cloud Management, Strategic Management, Enterprise Risk Management, Lean Six Sigma, Big Data and Analytics, Artificial Intelligence & Machine Learning, Applied Mathematics, Data Warehousing and Mining, Database Management Systems

SKILLS

Data Science: Machine Learning, Predictive Modeling, Data Mining, Topic Modelling, Sentiment Analysis, Supervised/Unsupervised Learning, and Libraries (NumPy, Pandas, Scikit-learn, PySpark, Tensorflow, NLTK, Matplotlib, Plotly)

Technologies: SQL, Python, R, Kaizen, Selenium, Bloomberg, Jira, ANOVA, Matlab, Git/GitHub

Business Analytics: Excel, Microsoft Power BI, Tableau, SSAS, Report Designer BI, Alteryx, SAS

EXPERIENCE

Data Analyst | *Dynamic Sustainability Lab*

July 2022 - May 2023

- Conducted comprehensive analysis on more than 150 energy measurement points within a \$2.11 billion enterprise utilizing Power BI, Report Designer BI, and EnergyCAP.
- Initiated the creation of an advanced Power BI dashboard, integrating diverse data sources, conducting Data Mining and Data Wrangling, crafting custom visualizations, and providing ongoing updates to senior leadership.
- Orchestrated the implementation of an innovative energy resource tracking system leveraging Power BI and SQL Server Analysis Services (SSAS), with a projected 15% reduction in energy usage.

PROJECTS

Healthcare Data Analysis | Introduction to Data Science

December 2022

- Spearheaded a team of 5 to conduct Exploratory Data Analysis (EDA) and streamline data using R, unveiling critical drivers of escalating healthcare expenses.
- Implemented a robust machine learning model integrating Linear, K-Support Vector Machines (KSVM), and RTree models, achieving an accuracy of 75% and sensitivity of 80% in projecting high-cost patients for the upcoming year.
- Employed R to craft insightful visualizations including maps, box plots, histograms, bar charts, and pie charts, culminating in identification of four actionable insights aimed at curbing individual healthcare expenditures.

Next Word Prediction

August 2019

- Advised the development and implementation of cutting-edge NLP strategies, resulting in a 25% increase in accuracy for next-word prediction tasks.
- Directed the management and processing of extensive datasets, comprising over 23,000 unique words, showcasing expertise in handling large-scale data, leading to a 30% improvement in model robustness.
- Developed a streamlined LSTM model with 128 neurons, achieving a remarkable 95% accuracy rate in language prediction, surpassing industry standards by 20%.

UX Research

November 2019

- Influenced product development at Google Generative AI, Meta, Universal Music Group, Spotify, Google Maps, Google Pay, YouTube, YouTube Shorts, Suntory, and TransPerfect through UX research initiatives.
- Shaped over 10 prototypes with key insights, impacting product design and innovation.
- Recommended 50+ video conferences to drive data-driven improvements for 15+ products; identified customer pain points through analytics, boosting customer satisfaction by 25% and retention rates by 20%.

Spoken Language Understanding using Pretraining Technique

October 2020

- Achieved a 15% performance enhancement for the SLU model by conducting intricate dataset analysis, refining preprocessing techniques, and optimizing feature selection for NLP tasks.
- Resolved data-related challenges to bolster model robustness, resulting in a 20% increase in implementation accuracy and ensuring the delivery of reliable insights.
- Engineered a streamlined speech recognition model that achieved an exceptional accuracy rate of 95% using pre-trained machine learning. Managed a dataset comprising 248 distinct phrases across 31 intents totaling 10 GB in size.