

# Rahul Kotian

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## EDUCATION

### Syracuse University School of Information Studies

*Master of Science in Information Systems*

August 2021 - May 2023

GPA: 3.67/4.0

### Mumbai University

*Bachelor of Engineering in Computer Engineering*

August 2016 - October 2020

GPA: 3.3/4.0

**Courses:** Object-Oriented Programming (Java), 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

**Technologies:** Java, Spring Boot, Spring Data JDBC, SQL, Python, R, Selenium, Bloomberg, Git, GitHub, Microsoft Azure Spring Apps, Azure Database for PostgreSQL, RESTful API, JSON, XML, AWS

**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)

**Business Analytics:** Excel, Root Cause Analysis, Microsoft Power BI, Tableau, SSAS, Report Designer BI, SAS

## EXPERIENCE

### Software Engineer | *Thinking Healthy Plus Java App*

August 2023 - May 2024

- Collaborated and engineered a robust back-end infrastructure using Java Spring Boot, RESTful APIs, and Spring Data JDBC, significantly enhancing system scalability and reliability for an app promoting healthy motherhood.
- Supported the deployment of the application on Microsoft Azure Spring Apps, ensuring seamless continuous integration and delivery and improving overall system efficiency and up-time.
- Synthesized complex data models and schemas for Azure Database for PostgreSQL, optimizing data retrieval and storage operations, which led to an improved user experience and faster application performance.

### Data Analyst | *Dynamic Sustainability Lab*

July 2022 - August 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.
- Led weekly brown bag sessions to share expertise and foster continuous peer learning.
- 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

### Uber Data Analysis using Java |

January 2020 - May 2020

- Developed a predictive model to identify peak usage hours and traffic bottlenecks by analyzing an Uber dataset with over 1,000 entries, leading to actionable insights for optimizing operations.
- Constructed efficient Mapper and Reducer classes using Java within the Hadoop MapReduce framework, integrating area, day of the week, and trip totals to analyze data patterns effectively.
- Executed comprehensive data analysis and extraction, utilizing advanced analytical skills to interpret complex datasets and deliver key findings on user behavior and traffic trends.

### Spoken Language Understanding using Pretraining Technique |

August 2019 - May 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 in Python.
- 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.

### UX Research |

November 2019 - January 2024

- 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%.