

# Kaushik Asok

[kaushik.asok@u.nus.edu](mailto:kaushik.asok@u.nus.edu) | +919940329884 | +6593530463 | Portfolio: ([kaushik.github.io](https://github.com/kaushik))

## EDUCATION

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### NATIONAL UNIVERSITY OF SINGAPORE

Singapore

*Master of Science in Business Analytics*

Aug 2022 – Sep 2023

- Relevant course work: Applied Machine Learning and Neural Networks for Analytics, Data Management and Warehousing with SQL, Network Science for Analytics, Managerial Economics

### SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Chennai, India

- *Bachelor of Technology (Mechanical Engineering)*, First Class with Distinction Jun 2015 - May 2019

## EXPERIENCE

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### ST ENGINEERING

Singapore

*Data Analytics Intern*

June 2023 – Nov 2023

- Developed visualizations with dashboards offering actionable insights on improving standards of maintaining mission critical systems operations to key stakeholders using Tableau.
- Implemented a proof of concept leveraging NLP techniques for addressing user-reported issues through document similarity search for optimizing Average Remote Resolution Time of mission critical systems Fault. Demonstrated the concept by creating a user interface using Streamlit.

### INFOSYS LIMITED

Chennai, India

*Data Science Engineer*

Jan 2020 - May 2022

- Designed Grafana Dashboards by implementing different visualizations of data present in data sources such as Elastic search, Postgres Database and Microsoft SQL database Server to study and understand resources leveraged by users from different units within the company for Model training in cloud.
- Collaborated with team on redevelopment of User Interface of Infosys MLOps Application implementing Material UI in Angular 8 framework within 15 working days which in turn lead higher management team showcase the application as a part of demo and onboard more clients for future project.
- Collected relevant data from various sources and cleansed and preprocessed it to ensure accuracy, consistency, and suitability for analysis. Investigated and resolved data-related issues, and wrote SQL queries for data retrieval, manipulation, and analysis to meet the Architectural team's requirements.

## DATA SCIENCE PROJECTS

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- **Customer Churn Analysis:** Utilized Explainable AI techniques to analyze machine learning models predicting bank customer churn, presenting actionable improvement retention strategies.
- **Customer engagement Analysis:** Implemented a Random Forest model to predict customer sign-ups for a grocery retailer's delivery club, enhancing targeted marketing and reducing campaign costs.
- **End-to-End Analytics Dashboard:** Developed a dashboard using Flask, PostgreSQL with Synthetic data designed in Snowflake schema and deployed on Heroku cloud to extract valuable insights.
- **Sentiment Analysis on Customer Feedback:** Conducted sentiment analysis using Transformer models on airline customer feedback gathered from surveys, social media, and web scraping. Identified key themes and actionable insights for improving customer satisfaction.
- **Algorithmic Stock Trading:** Developed modular Python code for algorithmic stock trading with optimized risk level and pricing strategies, deployed and evaluated on Huawei cloud.

## SKILLS

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- Business Languages: English, Tamil (native proficiency), Hindi
- Programming: Python, Scikit-Learn, Pandas, SQL, Streamlit, Machine Learning - Supervised and Unsupervised Learning, Natural Language Processing, Angular, Web Scrapping, Hypothesis Testing
- Data Visualization: Tableau, Grafana, Jupyter Labs, Data Storytelling