

# SAISH MAYEKAR

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[GitHub](#) | [LinkedIn](#)

## Education

<b>The University of Sheffield</b> , Department of Computer Science Masters, Data Analytics	Sep 2021
<b>Mumbai University</b> Bachelor of Engineering, Electronics and Telecommunications	Aug 2014

## Skills

- Programming Languages: Python (NumPy, TensorFlow, Scikit-learn), R, SQL
- Cloud Platforms: Azure (Data Factory, Azure ML, Azure SQL, Azure Functions), GCP (BigQuery, Vertex AI)
- Tools & Technologies: Tableau, Power BI, Google Looker, Palantir Foundry, Git, Databricks, Power Automate, Power Apps
- Machine Learning, Natural Language Processing (NLP), Generative AI, Large Language Models, Data Mining, Data Visualization

## Certifications

- Microsoft Azure Data Scientist Associate

## Technical Projects

- **Active Learning for Lifelong Learning Machine Translation** ([Dissertation](#))
- **Machine Learning for Drug development for AstraZeneca** ([Industrial Team Project](#))

## Experience

<b>PA Consulting</b> , <i>Consultant</i>	Mar 2022 – Present
<ul style="list-style-type: none"><li>• Designed and implemented end-to-end data engineering solutions using the Azure Data Stack, including ADF pipelines, Azure SQL, and Databricks, to automate document evaluation and contract grading for five Unilever portfolios. The solution integrated CoCounsel API for AI-powered document analysis, deployed via Power Apps with supporting Power Automate flows, enabling seamless user interaction and operational efficiency.</li><li>• Developed behavioural segmentation models for Vanguard using financial and CRM data, enabling precise client targeting and enhanced engagement strategies.</li><li>• Built and deployed a regression-based ML pipeline on GCP (Vertex AI) for taxi trip duration and fare prediction. Integrated CI/CD practices, model monitoring, and retraining workflows to enable scalable and reliable real-time inference. This project contributed to PA Consulting achieving GCP ML – Services Specialization.</li><li>• Led AI automation for Unilever’s Claims recommendation system using OpenAI, NLP, and Knowledge Graphs, across multiple geographies. Developed and deployed regression models into production to enable real-time prediction of claims’ resonance, sentiment, and expected sales, directly informing approval strategies and marketing effectiveness.</li><li>• Built an agile and near real-time Surface Access monitoring system for Heathrow using Power BI and Google Directions API to help them achieve the ‘Carbon on the Ground’ element of their Net Zero Strategy.</li><li>• Successfully rolled out the AW23 updates for NHSE Vaccine programme by building data pipelines, data transformations, ontology design, and front-end application updates on the Palantir Foundry platform.</li><li>• Analyzed customer survey data for a client in nuclear sector through NLP and ML algorithms including clustering, generating interactive scattertext plots at word, phrase, and topic levels; presented actionable insights and findings as sentiment trends and key themes, empowering informed decision-making and driving strategic initiatives.</li><li>• Developed a customized web scraping tool to gather data on Sustainable Aviation Fuel (SAF) usage among carriers and trained a custom NER model to accurately extract and track SAF percentage metrics to monitor the adoption of SAF in the aviation industry.</li><li>• Architected and deployed a robust conversational AI system incorporating NLQ techniques for an AI startup database with an efficiency of 89%, enabling seamless and efficient data retrieval.</li><li>• Successfully implemented a POC migrating Qlik dashboards to Google Looker, enhancing visualization capabilities with a streamlined semantic layer, resulting in a 40% reduction in reporting time. Conducted accelerator program for So Energy, optimizing customer care data structures and future-proofing initiatives using data governance and LookML best practices in Looker.</li><li>• Managed, mentored and upskilled a technical team of 4 peers to develop a POC transforming an existing Excel-based screening tool to an interactive and user-friendly Python application using Streamlit.</li><li>• Employed advanced data analysis techniques, including PDF parsing and web scraping, to conduct comprehensive quality assurance of HSBC's inventory data for 12 countries. Implemented text matching using cosine similarity to ensure completeness and accuracy, resulting in enhanced inventory management and operational efficiency.</li><li>• Built a Tableau dashboard that assessed cross-sector organizational resilience maturity, yielding invaluable insights and analysis that enhanced PA's resilience offering and guided strategic decision-making.</li></ul>	

## Previous Experience:

- IBM, Advisory System Analyst, Apr 2020 – Oct 2020
- Deloitte, Consultant, Jun. 2018 – Apr 2020
- Accenture, Application Development Senior Analyst, Sep 2014 – Jun 2018