SAISH MAYEKAR

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GitHub | LinkedIn

Education

The University of Sheffield, Department of Computer Science   Sep 2021
Masters, Data Analytics

Mumbai University   Aug 2014
Bachelor of Engineering, Electronics and Telecommunications

Skills

- Python (Scikit-Learn, NumPy, Pandas, PySpark, Matplotlib, Plotly, Streamlit), R, SQL, BigQuery, Palantir Foundry
- Machine Learning (Random Forest, XGBoost, SVM), Natural Language Processing (NLP), Generative AI, ETL
- PowerBI, Tableau, Google Looker
- Azure Data Factory, Azure Functions, Azure ML, AWS Comprehend
- Agile, Excel, Git

Technical Projects

Active Learning for Lifelong Learning Machine Translation (*Dissertation*)
Applied active learning strategies to enhance an existing English-German machine translation model to achieve a BLEU score of 36.6867, a remarkable 20 point increase over the baseline model

Machine Learning for Drug development for AstraZeneca (*Industrial Team Project*)
Led a team of 3 classmates to implement a basic and an advanced (similarity matrices) Matrix Factorization model for the problem of predicting the Drug Target Interaction

Experience

PA Consulting, *Consultant Analyst (Data Scientist)*   Mar 2022 – Present

- Analyzed customer survey data through NLP and ML algorithms, generating interactive scatter 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
- 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
- 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
- Led the successful implementation of a proof of concept (POC) for migrating Qlik dashboards to Google Looker, resulting in the design of a streamlined semantic layer that elevated visualization capabilities and revolutionized the reporting process; achieved a remarkable 40% reduction in reporting time
- Built a PowerBI dashboard with 10+ metrics to measure, monitor, and report on PA's carbon emissions, ensuring transparency and sustainability reporting
- 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
- Engineered the client and standard data pipeline for two hospital trusts on Azure Data Factory; created a seamless integration between Azure Functions and Microsoft Power Automate to develop a PDF encryption tool, enhancing data security and streamlining document workflows for the organization
- 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
- 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

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

Achievements

- Won Applause award during the UAT cycle, 2020 and 3 Spot awards during the UAT cycle, 2019
- Won "Accenture Celebrates Excellence (ACE)" award winner FY17 Q2
- Winner of "The Enabler Award", 2016 and consecutive winner of "Good Samaritan" award (2015 and 2016)

Miscellaneous & Interests

- Part of PA's HLS People team and MCR Digital group
- Academic Representative at the University of Sheffield, Department of Computer Science, Postgraduate Taught