SAISH MAYEKAR

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GitHub | LinkedIn | Tableau

Education

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

Mumbai University
Bachelor of Engineering, Electronics and Telecommunications

Skills

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

Technical Projects

Active Learning for Lifelong Learning Machine Translation (*Dissertation*)
Applied active learning strategies as part of my work on an existing machine translation system for English and German, obtaining a BLEU score of 36.6867 - a 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*   Mar. 2022 – Present
- Successfully implemented a proof of concept (POC) by migrating Qlik dashboards to Google Looker. Designed a streamlined semantic layer to improve visualization capabilities and enhance the reporting process.
- Built a PowerBI dashboard with 10+ metrics to measure, monitor, and report on PA's carbon emissions, ensuring transparency and sustainability reporting.
- Led and upskilled a technical team to develop a POC for enhancing the existing Global Market Screening Tool. Transformed the tool from an Excel-based solution to an interactive and user-friendly Python application using Streamlit.
- Developed the client and standard pipeline for two hospital trusts on Azure Data Factory. Additionally, created a PDF encryption tool through Azure Functions, seamlessly integrated with Microsoft Power Automate.
- Conducted comprehensive quality assurance of HSBC's inventory data by employing techniques such as PDF parsing and web scraping. Implemented text matching using cosine similarity to ensure completeness and accuracy of the inventory.
- Provided technical expertise in various areas, including natural language processing (NLP), MLOps, and cloud computing, to contribute to multiple Request for Proposals (RFPs).
- Built a Tableau dashboard to assess cross-sector organizational resilience maturity. This supported PA's resilience offering by providing valuable insights and analysis.

IBM, *Advisory System Analyst*   Apr. 2020 – Oct. 2020
- Enhanced the functioning of an internal chatbot tool built on Big Data, ML techniques, and HTML
- Reviewed and treated the training data as part of data cleaning, which led to a performance improvement of ~5%

Deloitte, *Consultant*   Jun. 2018 – Apr. 2020
- Engineered architecture and designed robust business solutions using SAP ABAP on HANA
- Collaborated with the Business Development team to execute UAT at the client location
- Optimized existing code for multiple reports by implementing methodologies like parallel processing and code pushdown

Accenture, *Application Development Senior Analyst*   Sep. 2014 – Jun. 2018
- Extended SAP version comparison in a report to generate PDF with the delta as output as a part of automating the process of creation of a Fix Resolution Document Creation, resulting in saving ~30 hours per week of manual work
- Created Employee Time Charging report for the project's internal use as a part of automation
- Conducted Design Thinking workshops to arrive at creative and innovative solutions for complex issues

Achievements

- Won Applause award during the UAT cycle, 2020 and multiple 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 that organizes monthly town hall
- Academic Representative at the University of Sheffield, Department of Computer Science, Postgraduate Taught, 2020-21
- Interests: Football, Cricket, Hikes