

AKSHAY DEORE

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PROFILE SUMMARY

- **Dedicated and focused Data Scientist/Data Engineer with 4+ years of experience.** Proven ability to implement proactive strategies through data analysis and research. Expertise in developing models to optimize healthcare pathways.
- **Proven expertise in leading end-to-end product ownership, data analysis, validation, and visualization initiatives,** delivering actionable insights and solutions to stakeholders.
- **Skilled in leveraging advanced analytics, machine learning, and statistical modeling techniques** to extract meaningful patterns and trends from complex datasets.
- **Demonstrated ability to independently manage multiple projects,** ensuring adherence to timelines.

SKILLS

- **Technical Skills:** Python, Azure, Pyspark, SQL, Power BI, R, AWS
- **Data Analysis and Modelling Skills:** Regression Analysis, Logistic Regression, Data Modeling, Random Forest, Machine Learning, Data Visualization
- **Data Management and Validation:** Data Cleaning, Data Preprocessing, Data Validation, Data Analysis, Critical Thinking

EXPERIENCE

Data Scientist & Data Engineer | COURSE51 | DEC 2022 – Present

- Built and maintained scalable **People Analytics data pipelines** using **Azure Data Factory (ADF), PySpark, Azure Databricks, and ADLS**, reducing data availability time and supporting workforce reporting and analytics
- Developed **end-to-end ETL/ELT workflows** and data models for HR analytics, enabling data-driven workforce planning and decision-making
- Created **interactive dashboards** and self-service reporting solutions using Power BI and R Shiny, reducing ad-hoc reporting effort by **~30%** and improving stakeholder access to insights
- Worked closely with stakeholders to define business needs and **deliver analytical solutions** aligned with organizational objectives
- Implemented **monitoring and alerting frameworks** using Azure Monitor, Log Analytics, Jira, and ServiceNow, improving operational efficiency and incident response times
- **LLM-Powered Client Dashboard Chatbot:** Built an LLM-based RAG chatbot enabling natural language queries on client dashboards and content using Confluence and web-scraped data indexed in a vector database
- **Search & Discovery Optimization:** Developed NLP-based classification models to improve search accuracy and content relevance, leading to a **~40% improvement** in content discoverability for end users

Analyst | Wafer Enterprises Ltd, UK | Mar 2022 - DEC 2022

- Analyzed demand data to optimize supply chain forecasting and strategy.
- Utilized Sage 300 ERP to enhance accounting processes, improve data accuracy, and generate comprehensive financial reports.

EDUCATION

Ulster University, Magee, UK

2019 - 2021

MSc Data Science with Applied Research

- Developed a Markov chain model for dementia care pathway, incorporating statistical analysis of population-based data to improve diagnosis accuracy, reduce delays, and enhance treatment timeliness. [\[NHS\]](#)
- Applied machine learning algorithms to classify clinical diagnostics results, enhancing accuracy and efficiency in healthcare data analysis. [\[AIBL\]](#).

Savitribai Phule Pune University (University of Pune), Maharashtra, India

2014 - 2018

Bachelor of Engineering in Computer Engineering

CERTIFICATIONS

Microsoft Certified Azure Fundamentals (AZ-900)

Databricks Certified Data Engineer Associate ([186460997](#))

PUBLICATION

- Paper Title: Markov chain modelling and sandbox tool for redesigning dementia care pathway.
- Paper Title: "Implementation of Augmented reality to ease visualization of real estate firms." IJCRT, Volume: 6.