

AJAY SHEKHAWAT

Results-oriented Computer Engineer with proven success in tackling complex business problems in diverse industries having expertise in advanced analytics, machine learning, and statistical modelling

PERSONAL INFO

shekhawatajay8@gmail.com

+44 7900435332

LinkedIn Profile:

<https://www.linkedin.com/in/ajay-shekhawat/>

EDUCATION

Master of Science in AI & Machine Learning

LJMU Liverpool

Post Graduate Diploma in Machine Learning and AI

IIT Bangalore

Bachelor of Engineering in Computer Science

University of Pune

SKILLS

PROGRAMMING

- Python, SQL, Excel (*proficient*)
- R, Pyspark (*familiar*)

FRAMEWORKS/TOOLS

- NLP, LLMs toolkits (*proficient*)
- SkLearn, Pandas, NumPy (*proficient*)
- Cloud: AWS, Azure (*familiar*)
- Time-series (*familiar*)
- Deep Learning, Keras (*familiar*)
- Tableau, PowerBI (*familiar*)
- Databricks (*familiar*)

DATABASES

- MySQL, SQL Server(*proficient*)
- MongoDB (*familiar*)

CERTIFICATIONS

- Azure DP-100 Designing and Implementing a Data Science Solution on Azure
- Azure AI Fundamentals
- Solution Architect – Associate | Amazon Web Services
- Google Analytics Individual Qualification

WORK EXPERIENCE

Freelance Data Science Consultant | (Contextual AI, IndulgeOut) Apr'24 - Present

- Conducted competitive benchmarking and research on RAG architectures, vector search platforms, and prompt/memory strategies, providing insights to guide engineering and deployment decisions for enterprise applications.
- Synthesized insights from competitive analysis and prototype development to inform engineering, product, and research teams, improving decision-making and design strategies.
- Analyzed retrieval strategies, context chunking approaches, and prompt mechanisms, documenting trade-offs and best practices to support model evaluation and system optimization.
- Built an annotation platform integrating response generation and retrieval APIs, improving annotation speed by 50% and providing a scalable workflow for model evaluation.
- Led rapid prototyping of a mobile app, designing system architecture, APIs, and technical workflows, providing a foundation for future product iterations and team alignment.

Technology Stack: Python, FastAPI, React, Expo, LangChain, Open AI, Anthropic, LlamaIndex, Pinecone, Weaviate, ChromaDB, Cohere, Amazon Kendra

Data Scientist | AB InBev

Nov'21 - Apr'24

- Designed and deployed a Credit Risk ML model to segment customers into Credit risk categories and determine their optimal credit limit and payment terms. This led to a 12.6% uplift in net revenue between the control and test groups.
- Implemented forecasting models to predict returnable packaging, improving the data forecast accuracy by 12%, leading to reduced production loss and optimized logistics.
- Built and maintained an end-to-end data pipeline using Azure Data Factory for the daily planning tool, reducing the planning time by 2 hours per day.
- Spearheaded a generative AI (GenAI) POC using LangChain for the Logistics domain capable of ingesting data from multiple data sources and generating personalized responses.

Technology Stack: Python, SQL, Databricks, LangChain, ARIMA, Prophet, LSTM, RandomForest, XGBoost, Azure, PySpark, OpenAI

Data Scientist | Piramal Glass

Oct'20 - Oct'21

- Designed and developed a predictive model for daily fuel consumption, enabling efficient anomaly detection and saving the company \$500k in fuel costs.
- Automated financial transaction reconciliation using machine learning for transaction matching resulting in 30% decrease in reconciliation time.

Technology Stack: Python, PowerBI, Random Forest, Databricks, Azure, PySpark, Shap Plots, SpaCy

Associate | Publicis.Sapient

Jul'16 - Oct'20

- Performed market mix modelling to estimate the effectiveness of various marketing and pricing strategies for an e-commerce beverage company.
- Developed a BTYD probabilistic model using behavioral characteristics for each customer, resulting in a 7% increase in campaign's effectiveness.

Technology Stack: Python, Logistic Regression, NLP, word2vec, BeautifulSoup, SQL, Excel