

Ibrar Yunus

Full-Stack AI Engineer

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Technical Expertise

AI/Data Science: Classical ML models, newer Transformer and Gen AI models for various ML tasks. Experienced in every phase of Data Science projects life-cycle (end-to-end development, from research and feature engineering, to model evaluation, CI/CD integration, containerisation, deployment of APIs/microservices, and batch processes on Cloud services such as Google Cloud Compute; and making ML ETL pipelines with monitoring and retraining triggers).

LLMs/Vision: EDA, Text Preprocessing (e.g. vectorisation, tokenization, lemmatisation), Feature Engineering (e.g. TF-IDF, Bigram/Trigram analysis, POS-Tags), **Modeling and fine-tuning (BERT, RoBERTa, GPT models etc)**, **Model evaluation with different metrics and optimisation with ONNX.** LangChain, DialogFlow and NeMo-Guardrails for development of chatbots with LLMs. Experienced with **RAG Chatbots**, and Multi-Modal Transformer models, such as X-CLIP, BLIP-2, InstructBLIP, etc.

Languages and Frameworks: Python, BigQuery, SQL, C++, C, Java, GoLang, Docker, Kubernetes, GCP Vertex AI, REST/gRPC APIs, Version Control (Git, Subversion), OpenAPI, NLP Libraries (spaCy, NLTK, LangChain, Gensim, TextBlob, Transformers), Data Science Libraries (Tensorflow, Keras, PyTorch, Scikit-Learn).

Frontend and Hosting: TypeScript, NextJS, Tailwind CSS, Firebase Hosting, Firestore

Relevant Work Experience

2024-
now **Lead Data Scientist | Gifftid Ltd., United Kingdom (Provides an all-in-one AI platform to empower SMEs (small and medium-sized enterprises) with tools to access capital, win commercial partners, and build strong supply chains)**

Architecting Gifftid's Vision:

- **Architected and implemented the complete GenAI platform**, including GCP infrastructure, CI/CD pipelines for ML workflows, containerized deployments (Docker/Kubernetes), automated monitoring, data processing/persistence pipelines, access controls, chatbots, and vector databases, enabling rapid AI-powered solutions for SMEs - and implementation and deployment of analytics dashboards.
- Working hand-in-hand with the CEO, I provided the strategic vision that redefined Gifftid's impact. **By pinpointing untapped opportunities and pioneering AI tools purpose-built to empower SMEs**, I fueled remarkable company growth and firmly established Gifftid as the leading force in AI-driven SME solutions.

2018-
2024 **Data Scientist and Software Engineer | The Hut Group, United Kingdom (A leading global e-commerce company specialising in health, beauty, and lifestyle products, serving customers worldwide. Comparable to Alibaba Group in the realm of international e-commerce and digital retail)**

Recent Important Projects:

- Created smart outfit suggestions by combining vision and language using multi-modal models like InstructBLIP and GPT models on Azure.

Unique Skills:

- Developed chatbots with chatGPT and other LLMs with grounding to company data.
- Managed company data for tasks like information retrieval with vector databases, chat guardrail, topic analysis, tag analysis, revenue forecasting and sentiment analysis, integrating ML services into production APIs and backend systems.

Recognition:

- **Featured at the THG Ingenuity Future of Commerce 2023 Industry Innovators Conference.**
- Trained and project lead other Data Scientists.
- **Deployed LLM/AI projects are accessed by 7 million+ users each month.**

Relevant Education

2016-
2018 **University of St. Andrews, United Kingdom and Maynooth University, Ireland**

MSc in Dependable Software Systems (DESEM) (**Distinction**)

Key Project: I used a Turtlebot robot and a RGBD sensor to scan rooms in 2D and 3D and detect any changes. I also improved the use of Kintinuous, a fast and accurate visual SLAM system, created by MIT (USA) and Maynooth University. My results were impressive: **83% accuracy with 2D and 100% with 3D environmental change detection.**

Accomplishments

- **Gold Medalist** and scholarship holder in O Levels and ALevels, and scholarship holder in 6 out of 8 semesters in undergraduate studies
- Undergraduate project "Computer Vision for Driving Safety Analysis" received **Gold Medal Certificate, is patent pending in the United States and research paper is published on IEEE.**
- **Awarded Erasmus Mundus Joint Masters Scholarship for DESEM Programme (Year 1 in Ireland - Year 2 in Scotland) – 49,000 € by the European Union.**
- Experienced DJ, photographer and artist, with upcoming art exhibitions in Manchester.