

# FRANK ENENDU - AI & ML ENGINEER

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## SUMMARY

I am very passionate about using technologies to solve real-world problems, and I believe I can bring a lot of value to any team. With my background in AI, data science, machine learning, and data engineering, I have the practical skills and experience to be a good fit. I love learning new technologies and am a very fast learner, which has enabled me to dive into many data engineering, machine learning, and AI technologies. This is truly what I love. I also enjoy working in a team and sharing my knowledge. Additionally, I am not afraid to tackle tough challenges. I look forward to the opportunity to bring my skills and enthusiasm to your organization.

## TECHNICAL SKILLS

- ★ **AI Engineering:** Agentic Workflow, RAG, Base Model Fine Tuning, *LangChain Ecosystem, AutoGen, HuggingFace, Streamlit, GPT Engineer, CrewAI*
- ★ **Programing Languages:** *Python, React, R, SQL*
- ★ **Machine Learning:** Model Training and Deployment, Traditional ML Algorithms, Deep Learning (*TensorFlow, PyTorch, Scikit-learn, Keras*), Natural Language Processing (*NLTK, spaCy LLMs* etc), Computer Vision (*OpenCV*) |
- ★ **MLOps:** Pipeline building, Orchestration (*Docker*), CI/CD (*Git-Action*), Model Versioning and monitoring (*MLFlow, Airflo, Kubeflow*) |
- ★ **Large Language Model (LLM):** | *OpenAI, Llama, HuggingFace Transformers*
- ★ **Software Engineering:** Programing with *python*, APIs, OOP, Software Design Patterns, Data Structure & Algorithm, Unittest, *Git*, Logging & Debugging, Code Documentation, Dependency Management (*Conda, Pip*) |
- ★ **Data Engineering:** *MySQL, Postgres, Docker* |
- ★ **Product Development:** Agile PM, Software Architecture Design |
- ★ **Cloud Services:** Azure (*Machine Learning, Synapse Analytics, Cognitive Services, AI Services, OpenAI, Fabrics*), GCP - (*BigQuery, Vertex AI*), AWS - (*Sage Maker, AWS Glue*) |
- ★ **BI Engineering:** *Power BI, Tableau, Dax, Power Query*

## EXPERIENCE

### BCN Group, Manchester Office - AI/ML Engineer

08/2023 - Till Date

- **NHS Performance Report Chatbot:** Built a chat app that interacts with PublicView database (a NHS Benchmarking tool) and uses LLM to generate PDF reports.
- **Customised Knowledge Base Chat App:** Single-handedly developed a chat app using Azure Open AI, enabling efficient user interaction with internal knowledge bases.
- **Anomaly Detection Implementation:** Built and deployed an LSTM Autoencoder-based anomaly detection tool with Azure Synapse Analytics and Power BI, enhancing client data analysis.
- **Email Classification System Using Azure Language Understanding API:** Fine-tuned Microsoft CLU model for client's email system, improving classification efficiency through Azure Language Understanding API integration.

### HubPay, London Office - Junior Data Scientist

12/2021 - 01/2023

- **Customer Sentiment Analysis :** Utilized NLTK for sentiment analysis on real-time customer support tickets from Zendesk, creating a sentiment evaluation system to assess support team interactions
- **Targeted Market Optimisation:** Developed a Python script to segment 163,000+ customers by nationality and generate KYC reports, optimizing market targeting
- **FX Analysis:** Performed competitive analysis of FOREX brokers' FX spreads using machine learning; developed predictive models aiding the internal team in FX rate setting.
- **Real Time Metrics Monitoring:** Created a real-time dashboard with R-Shiny for daily performance metrics monitoring, enhancing operational efficiency.

### Enterprise Development Centre, Lagos Nigeria - Data & Research Scientist

04/2021 – 09/2022

- **Power BI Development & Data Visualization:** Spearheaded the design and development of dashboards using Power BI, providing key actionable insights to business stakeholders.
- **Business Intelligence & System Optimization:** Played a critical role in enhancing BI systems by executing query optimization, scaling, and performance enhancement strategies, resulting in a 25% reduction in system downtime.
- **Technical Support & User Training:** Provided technical support and training to new BI system users, significantly improving user experience by 30%.

**Sunnet Systems Ltd, Lagos Nigeria - Business Analyst Associate**

**05/2020 - 03/2021**

- **Business Analytics & Vendor Management:** Fostered key vendor relationships for a high-value project, representing 35% of the company's annual revenue. Utilized business analytics and data insights to inform decision-making processes.
- **Data-Driven Reporting & CRM Implementation:** Led the development and implementation of data-driven reporting and customer relationship management (CRM) systems. This strategic use of data significantly contributed to the company's success.

**Wakanow Ltd, Lagos Nigeria - Business Intelligence & Product Intern**

**04/2019 - 04/2020**

- **Data Analysis & Dashboard Development:** Developed interactive dashboards, utilizing Power BI and Tableau, to analyze data across various departments. This data-driven approach resulted in a 25% reduction in employee turnover and a 20% increase in customer satisfaction.

**PERSONAL PROJECTS**

I am passionate about building personal projects for fun, especially to explore new technologies as well as contributing to open-source initiatives. [Visit my Github](#) or [my personal portfolio website](#) to see numerous projects I have built over the years. I also maintain a [medium page](#) where I delve into the details of each project. In the future, I plan to create video recordings that showcase the implementation process of these projects

**SOFT SKILLS**

- **Communication:** Skilled at explaining complex concepts to diverse audiences.
- **Problem-solving:** Creative and analytical thinker, able to devise innovative solutions.
- **Teamwork:** Reliable team player, adept at collaboration and conflict resolution.
- **Organisational Skills:** Excellent at managing tasks, prioritizing effectively, and meeting deadlines.

**EDUCATION**

- **University of Liverpool, UK** - MSc, Data Science and Artificial Intelligence **09/2022 - 09/2023**  
**Modules:** [Applied Artificial Intelligence](#), [Maths and Statistics for AI and Data Science](#), [Computational Intelligence](#), [Data Mining and Visualisation](#), [Machine Learning and BioInspired Optimisation](#), [Programming Fundamentals](#), [Database and Information Systems](#).
- **Federal University of Technology Owerri, Nigeria** - BTech, Logistics Management **09/2013 - 08/2018**  
**Modules:** Ordinary Differential Equation, Applied Statistics, Mathematical Methods, Operations Research