ADEOLUWA AZUKA ADELUGBA

Senior AI Engineer | GenAI | MLOps | Agentic AI

Peterlee, UK | +44 7914 789062 | adeoluwa.adelugba@gmail.com | linkedin.com/in/adeoluwa-adelugba-58a96329

PROFESSIONAL PROFILE

Senior AI Engineer specialising in Generative AI, MLOps, LLMOps and agentic systems, with extensive experience designing, deploying and operating enterprise AI platforms across Azure and Databricks.

Builds RAG platforms, AI assistants, multi-agent orchestration, intelligent document processing and workflow automation, spanning ingestion, feature engineering, evaluation, deployment, observability, governance, CI/CD and scalable serving.

Combines hands-on Azure OpenAI, Azure AI Search, Azure AI Foundry, Databricks, MLflow, Unity Catalog and Azure Machine Learning expertise with a strong foundation in data science and predictive analytics across insurance, finance, housing and enterprise operations.

PROFESSIONAL EXPERIENCE

Senior AI Engineer | GenAI | MLOps | Agentic AI

AI Ops Solutions | Self-employed consulting

11/2021 - Present

- Led the design, deployment and operationalisation of enterprise AI, Generative AI and MLOps solutions across multiple industries.
- Architected enterprise RAG assistants using Azure OpenAI, Azure AI Search, Databricks and ADLS.
- Built multi-agent systems deployed through Databricks Model Serving endpoints.
- Developed intelligent document processing and AI workflow automation platforms.
- Implemented scalable MLOps and LLMOps frameworks with MLflow, Azure DevOps, Azure Machine Learning and Databricks.
- Authored ADRs, HLDs and LLDs covering orchestration patterns, agent responsibilities, API integration, data flows, security, governance and deployment.
- Designed reusable agents, assistants and multi-agent workflows with Azure AI Foundry, Microsoft Copilot Studio and Power Platform, from proof of concept to governed implementation.
- Built a multi-agent conversational claims platform in Copilot Studio, using custom connectors to integrate Power Platform with back-end claims APIs.
- Established Git-based ALM for Copilot Studio, automating solution validation, unpacking, imports and releases through Azure DevOps CI/CD.
- Implemented nightly, accuracy-gated evaluations for conversational agents using Direct Line and Azure AI Foundry evaluation tooling.
- Deployed prompt-based and hosted Azure AI Foundry agents for production classification workloads with version-controlled release automation.
- Delivered an agentic RAG proof of concept for Ivanti ITSM using OpenAI function calling, FastAPI, Pinecone/FAISS and OData APIs for grounded Q&A and ticket management.
- Built an Azure-hosted ingestion proof of concept using Python and Streamlit, routing schema-based files through ADLS Gen2 into governed Databricks Delta and Unity Catalog environments with Terraform and Azure DevOps validation.

KEY ACHIEVEMENTS

Enterprise RAG platforms
Built Azure and Databricks RAG assistants with governed ingestion, vector search and grounded enterprise knowledge access.

Agentic AI delivery
Designed orchestrator-and-specialist agent systems integrating approved APIs and production model-serving endpoints.

Production AI operations
Established CI/CD, evaluation, observability and model-governance patterns across MLflow, Azure DevOps and Azure ML.

40+ staff-hours saved daily
Automated high-volume reporting work with Excel VBA, freeing more than 40 staff-hours each day.

CORE EXPERTISE

Generative & Agentic AI

RAG architecture	Agentic systems
Multi-agent orchestration	
Prompt engineering	LLM evaluation
Grounding	Guardrails

Azure & Databricks

Azure AI Foundry	Azure OpenAI
Azure AI Search	Databricks
MLflow	Unity Catalog
Azure ML	ADLS Gen2

AI Engineering

MLOps / LLMOps	Model serving
CI/CD	Observability
IDP	Workflow automation

PROFESSIONAL EXPERIENCE

Career Break
Professional sabbatical
06/2021 - 10/2021

Data Scientist
London & Quadrant Housing Association
04/2018 - 06/2021

- Built NLP and predictive models supporting operational optimisation and tenant engagement.
- Developed rent-arrears forecasts that contributed to a significant reduction in arrears.
- Built propensity models supporting Direct Debit adoption initiatives.

MI Analyst
Financial Ombudsman Service
09/2017 - 04/2018

- Built enterprise MI reports and dashboards in SAP BusinessObjects and Power BI.
- Resolved longstanding reporting discrepancies and improved reporting consistency.

Junior Data Scientist
Borgesh Limited
12/2015 - 11/2017

- Built predictive models and Tableau dashboards supporting business forecasting.
- Performed data extraction, cleansing, wrangling and exploratory analysis.

Data Analyst
Financial Ombudsman Service
04/2013 - 08/2017

- Built Excel forecast models and dynamic charts that updated as new reports arrived.
- Automated routine Excel processes with VBA, saving more than 40 staff-hours each day.
- Created executive dashboards aggregating information for senior stakeholders.

SELECTED ENTERPRISE AI PROJECTS

Enterprise RAG AI Assistant Platform
Designed enterprise RAG assistants for internal departments using Azure OpenAI, Azure AI Search, Databricks and ADLS; built ingestion and indexing pipelines for vector-enabled search over enterprise knowledge.

Agentic AI Vehicle Classification
Architected an orchestration agent and specialist agents that automate vehicle classification through third-party APIs and Databricks Model Serving endpoints.

Intelligent Document Processing
Developed automated document classification, structured information extraction and rule-based validation for operational and vehicle-related documents.

Azure AI Foundry Incubator
Led a proof of concept evaluating Azure AI Foundry as an enterprise AI incubation environment for turning early ideas into implementation-ready project definitions.

AI Workflow Automation
Built n8n-based AI workflows supporting lead generation, outbound communication, content creation, creator operations and broader process automation.

Enterprise MLOps Framework
Designed MLOps deployment patterns for CI/CD, experiment tracking, model governance, lifecycle management and production-grade serving.

DELIVERY STRENGTHS

Enterprise Delivery

Solution architecture	**Stakeholder discovery**
ADRs / HLDs / LLDs	
Governance	**Responsible AI**
UAT	**Operational support**

EARLIER EXPERIENCE

Data Analyst
Response Recruitment / Hero TSC – Sky TV
10/2011 - 03/2013

- Built Excel data-retrieval models, pivot tables and dashboards for sales, marketing and KPI reporting.

Junior Business Analyst
Data Solution Network
06/2011 - 09/2011

- Elicited, analysed, managed and validated requirements; modelled processes and supported testing against project objectives.

Senior Analyst
Zenith Bank Plc
02/2008 - 08/2010

- Managed an analyst team, investigated operational pain points and delivered qualitative and quantitative analysis.
- Produced forecasting and performance reports in Excel and appraised junior colleagues quarterly.

LEADERSHIP & ENABLEMENT

- Mentored Data Scientists and Engineers in MLOps, GenAI and AI engineering practices.
- Helped define reusable AI deployment standards and operational workflows.
- Led AI feasibility discussions and architecture workshops with business stakeholders.
- Supported enterprise AI adoption through coaching, technical guidance and enablement initiatives.

EDUCATION

MSc Quantitative Finance
University of Glasgow

BSc (Hons) Banking & Finance
University of Lagos

CERTIFICATIONS

Databricks Certified Generative AI Engineer Associate
Databricks | 2025

Azure AI Engineer Associate
Microsoft Certified

Azure Data Scientist Associate
Microsoft Certified

Azure Developer Associate
Microsoft Certified

Azure Data Engineer Associate
Microsoft Certified

Azure AI, Data & Cloud Fundamentals
Microsoft Certified | AI-900, DP-900 & AZ-900

ML, MLOps, Developer & Designer credentials
Dataiku | Practitioner, Core & Advanced

Business Analysis practitioner credentials
BCS ISEB | Requirements, Process Modelling & IS Project Management

TECHNICAL SKILLS

AI / Generative AI

Azure OpenAI	OpenAI APIs
Copilot Studio	Power Platform
Vector search	Conversational AI
AI assistants	n8n

Engineering & Data

Python	PySpark
SQL	R
Pandas	REST APIs
Streamlit	Flask

Analytics

Power BI	Tableau
BusinessObjects	Dashboarding