

Ahmed Salim

AI/ML Engineer | Data Scientist (Generative AI & AI Systems)

Location: Riyadh, Saudi Arabia (Transferable Iqama)

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Professional Summary

AI/ML Engineer with 4+ years of experience building end-to-end machine learning and generative AI systems across NLP, computer vision, and data-driven applications. Currently working at RMG in Riyadh, where I design, prototype, and develop AI-powered digital solutions for government entities aligned with DGA standards (Qiyas 5.23).

Experienced in developing and deploying production-grade AI systems, including LLM-based applications and RAG pipelines, delivered as scalable APIs and services using modern MLOps practices (Docker, Kubernetes).

Hold an MSc in Data Science with published research, combining strong theoretical foundations with hands-on experience delivering real-world AI solutions that drive data-driven, automation and operational impact.

Core Competencies

- **Machine Learning & AI:** LLMs, RAG, NLP, Computer Vision, Deep Learning, Diffusion Models
- **AI Systems & Engineering:** End-to-End ML Systems, APIs, Microservices, Model Deployment
- **Data Engineering:** ETL Pipelines, Feature Engineering, Data Processing
- **Cloud & MLOps:** AWS, GCP, Azure, Docker, Kubernetes, CI/CD, MLflow
- **Analytics & BI:** SQL, Power BI, Looker Studio, Data Modeling

Education

MSc. in Data Science — University of Technology Malaysia

Johor Bahru, Malaysia | Mar 2022 – Mar 2024

- CGPA: 3.6/4.0
- Publication: *Leaf Segmentation with HSV-SAM*, UTM Press, 2024 (pp. 33–49)
<https://epress.utm.my/index.php/editedbook/catalog/book/183>

BSc in Electronics Engineering (Honours) — Future University

Khartoum, Sudan | Aug 2013 – May 2018

- Thesis: IoT-Based Smart Shopping Basket using Arduino and RFID

Professional Experience

Innovation Specialist — RMG

Riyadh, Saudi Arabia | Feb 2026 – Present

- Design and prototype AI-powered digital services for government entities aligned with DGA digital transformation standards (Qiyas 5.23)
- Lead end-to-end development of innovation initiatives, from ideation and architecture design to prototyping and pilot deployment
- Translate business and service challenges into scalable AI-driven solutions that enhance beneficiary experience and operational efficiency

- Collaborate with stakeholders to align solutions with regulatory constraints, existing systems, and adoption requirements
- Support measurement of impact through defined KPIs (operational efficiency, service time reduction, beneficiary engagement)
- Prepare complete technical and business documentation, including architecture diagrams, data flows, and evidence required for Qiyas evaluation

Freelance Data Scientist & ML Engineer — Upwork

Remote | Aug 2024 – Present

Top Rated • 100% Job Success • 10+ completed projects.

- Delivered 10+ AI/ML solutions across NLP, computer vision, and predictive analytics for international clients
- Designed, built, and deployed production-ready AI systems with scalable APIs architectures and cloud integration
- Developed LLM-powered systems for summarization, text generation, and data extraction
- Provided long-term maintenance and technical consulting for enterprise clients
- Automated business workflows, reducing manual effort by up to 70% in selected implementations

Machine Learning Engineer — Stem-AWAY

Remote | Los Gatos, United States | Aug 2024 – Jan 2025

- Led a team of 15 to build GDAP, a gene-disease association pipeline using graph embeddings and neural networks
- Developed an interactive ML platform (Streamlit + PyVis) for model training and visualization
- Designed reproducible ML pipelines for preprocessing, training, and evaluation
- Created ML workflow documentation, and training materials for 100+ participants

Applied Machine Learning Engineer — J&T Express

Johor Bahru | May 2024 – Aug 2024

- Built demand forecasting models (LightGBM, Random Forest) for warehouse inventory optimization
- Developed lead scoring system combining LLM-based text extraction with ML classification
- Reduced data processing time by 50-80% through query optimization and pipeline refactoring
- Built internal tools using Python, Flask, and Azure Web Apps
- Conducted customer behavior analysis for segmentation and retention

Research Assistant — University of Technology Malaysia

Johor Bahru | Mar 2023 – July 2024

- Participated in experimental pipelines for ongoing research projects
- Co-authored a book chapter on AI for Plant Disease Detection
- Peer-reviewed IEEE Access papers related to CV (UAV detection, OCT segmentation)
- Supported teaching for Business Intelligence and Statistics courses

Network Performance Analyst — Huawei Technologies

Khartoum, Sudan | Jan 2019 – Dec 2019

- Sub-contracted with major Sudanese telecom operators, including Zain, and Sudani
- Analyzed and optimized performance for 120+ telecom towers, reducing call drop rate by 11%
- Automated weekly reports with Excel/VBA, cutting reporting time from 8 hours to 1 hour
- Assisted network teams with data-driven insights and optimization strategies

Selected Projects

Qaweem — AI-Powered Urban Distortion Platform

AWS x Manara Hackathon 2nd Place | 2026 | [Link](#)

- Built an end-to-end AI system for automated detection, prioritization, and cost estimation of urban issues from images
- Used AWS Bedrock (LLMs), DynamoDB (deterministic pricing), and S3 for storage
- Combined AI predictions with rule-based validation to improve reliability
- Presented the solution to technical judges, securing 2nd place among 100+ teams

Domain Adaptation for Galaxy Observations

IAIFI Summer School Hackathon 1st Place | 2025 | [Link](#)

- [Won Best Teamwork](#) (peer-voted) at IAIFI 2025 Hackathon (Team Nebula AI); collaborated on domain adaptation for galaxy morphologies
- Co-authored and published “[From Simulations to Surveys: Domain Adaptation for Galaxy Observations](#)” at the Machine Learning and Physical Science Workshop (ML4PS), NeurIPS 2025.

LLM-Based Text-to-SQL System

Ready Tensor NLP Expo | 2024 | [Link](#)

- Published “[Unlocking SQL: Converting Natural Language into Query Results with Generative AI](#)” at Ready Tensor NLP Expo
- The project won the [outstanding solution implementation award](#)

Generative AI Systems

- Built RAG pipelines integrating structured and unstructured data sources
- Developed LLM-powered applications for automation, document processing, and text generation
- Experience with prompt engineering, evaluation, and system orchestration
- Designed hybrid AI systems combining LLMs with rule-based validation and workflows

Certifications

- IAIFI Summer School – Participation + Best Team Award (2025)
- DAL Sheep Classification Challenge – Certificate of Appreciation (2025)
- Ready Tensor NLP Projects Expo: Outstanding Solution Award-Winning (2024)
- EY Open Science Data Challenge – Top Performer (2023)
- LinkedIn Learning: Azure Spark Databricks Essential Training (2024)
- Microsoft Azure Data Fundamentals – DP-900 (2023)
- Microsoft Azure AI Fundamentals – AI-900 (2023)

Technical Skills

- **Programming & Frameworks:** Python, SQL, JavaScript/TypeScript, Bash, PyTorch, TensorFlow, Scikit-Learn, Hugging Face, Streamlit, Jupyter
- **Backend and APIs:** FastAPI, Django, Flask, REST APIs
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud & MLOps:** AWS, GCP, Azure, Docker, Kubernetes, MLflow
- **Tools:** Power BI, Looker Studio, Tableau, DAX, JIRA, Git, Linux

Languages

- Arabic — Native.
- English — Fluent.