Ahmed Salim

Data Scientist | Business/Data Analyst | Machine Learning Engineer

Location: Riyadh, Saudi Arabia (Transferable Iqama)

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Professional Summary

Data Scientist and Machine Learning Engineer with 4+ years of experience delivering end-to-end AI solutions across Computer Vision, NLP, Generative AI, and Business Intelligence. Strong background in ML engineering, data pipelines, cloud deployments, and model optimization. Experienced in building production-ready AI systems using Python, PyTorch, TensorFlow, and modern MLOps stacks (Docker, Kubernetes, MLflow).

Hold a master's in data science with published research and hands-on experience solving real-world business challenges. Adept at translating complex technical models into measurable business impact, automation, and decision-making improvements.

Core Competencies

- **Machine Learning & AI:** Deep Learning, CV, NLP, LLMs, RAG, Diffusion Models
- **Business Intelligence:** KPI Dashboards, data modeling, reporting
- **Data Engineering:** ETL Pipelines, feature engineering, API Development
- **Cloud & MLOps:** AWS, GCP, Azure, Docker, Kubernetes, CI/CD, MLflow
- **Software Engineering:** FastAPI, Django, REST APIs, Microservices
- **Tools:** Power BI, Looker Studio, Tableau, Git, Linux

Education

MSc. in Data Science — University of Technology Malaysia
Johor Bahru, Malaysia | Mar 2022 – Mar 2024

- CGPA: 3.6/4.0
- Book Chapter: Leaf Segmentation with HSV-SAM

BSc in Electronics Engineering (Honours) — Future University
Khartoum, Sudan | Aug 2013 – May 2018

- CGPA: 3.4/4.0
- Thesis: IoT-Based Smart Shopping Basket using Arduino and RFID

Professional Experience

Freelance Data Scientist & ML Engineer — Upwork
Remote | Aug 2024 – Present
Top Rated • 100% Job Success • 10+ completed projects.

- Delivered AI/ML solutions in Computer Vision, NLP, predictive modeling, and automation for clients in the U.S, GCC, and Europe.
- Built full-stack AI applications using Django, FastAPI, React, and Streamlit.
- Automated data workflows and regression tests, reducing manual operations by up to 70%.
- Designed and deployed ML models to cloud environments with scalable APIs.
- Provided long-term maintenance and technical consulting for enterprise clients

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.
- Deployed an interactive Streamlit app for training, evaluation, and PyVis graph visualization.
- Designed ML workflow documentation, and training materials for 100+ students & engineers
- Developed reproducible data pipelines integrating preprocessing, modeling, and monitoring

Research Assistant — University of Technology Malaysia
Johor Bahru | Mar 2023 – July 2024

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

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

- **NeurIPS Workshop Paper (2025):** Co-authored "*From Simulations to Surveys: Domain Adaptation for Galaxy Observations*" at the Machine Learning and Physical Science Workshop, NeurIPS 2025.
- **Sheep Classification Challenge (2025)**: Participated in a [Kaggle competition](#), and built a Vision Transformer solution with semi-supervised learning and weighted ensembling.
- **Xlytics, AI-Powered Tweet Summarization (2025):** Developed an analytics and summarization engine using LLaMA 3+ LLaVA for multimodal understanding.
- **Face Analysis Kit (2025):** Published a modular [PyPI package](#) for gaze tracking, eye state recognition, and emotion detection
- **Brain Tumor Segmentation (2024):** Achieved Dice score 0.99 and mean IoU 0.90 using a multi-scale U-Net architecture.
- **Ready Tensor NLP Projects Expo (2024):** Published "*Unlocking SQL: Converting Natural Language into Query Results with Generative AI*" at [Ready Tensor NLP Expo](#), A project that won the outstanding solution implementation award.

Certifications

- AIFI Summer School (2025)
- DAL Sheep Classification Challenge – Certificate of Appreciation (2025)
- Ready Tensor NLP Projects Expo: Outstanding Solution (2024)
- EY Open Science Data Challenge – Top Performer (2023)
- LinkedIn Learning: Azure Spark Databricks Essential Training (2024)
- SQL Server Reporting Services (2019)
- Microsoft Azure Data Fundamentals – DP-900 (2023)
- Microsoft Azure AI Fundamentals – AI-900 (2023)

Technical Skills

- **Programming & Frameworks:** Python, C/C++, Julia, JavaScript/TypeScript, SQL, Bash, PyTorch, TensorFlow, Scikit-Learn, Hugging Face, Django, FastAPI, Streamlit, Jupyter.
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **Cloud & MLOps:** GCP, Azure, Docker, Kubernetes, MLflow, REST APIs.
- **Business & Tools:** Power BI, Looker Studio, Tableau, DAX, JIRA, Git.
- **Web:** HTML, CSS, theme customization - APIs & Integrations - Linux/Windows.

Languages

- Arabic — Native.
- English — Fluent.