

# Ahmed Salim

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## Summary

Data Scientist / ML Engineer with 2+ years of experience across computer vision, NLP, and production ML. Build data-driven models and applications end-to-end (Python, PyTorch/TensorFlow, SQL) and deploy on Azure/GCP. Strong at translating business needs into measurable impact and shipping reliable ML systems.

## Skills

**Languages & Tools:** Python, SQL, Bash, Git, Docker, Jupyter

**ML & AI:** PyTorch, TensorFlow, scikit-learn, Transformers, OpenCV

**LLMs & Apps:** LangChain, RAG, Hugging Face, Streamlit, FastAPI, Flask, Django

**Data & BI:** Pandas, NumPy, Power BI, Looker Studio, BigQuery, Plotly

**Cloud & MLOps:** Azure, GCP, REST APIs

**Languages:** English (Fluent), Arabic (Native)

## Experience

### Upwork

#### Data Science Freelancer

Remote

Aug 2024 - Present

- Delivering comprehensive AI/ML solutions to clients worldwide through data-driven innovation
- Specializing in computer vision, natural language processing, and machine learning applications
- Achieved Top Rated status with 100% job success rate and consistent 5-star client reviews
- Key project areas:
  - Medical image segmentation and analysis
  - Computer vision and deep learning applications
  - Python development and automation solutions
  - Full-stack web applications with AI integration

### STEM-Away

#### Machine Learning Engineer (Internship) — Technical Lead

Remote

Aug 2024 - Jan 2025

- Led a diverse international team of 15 to deliver *GDAP*, a gene-disease association prediction pipeline using graph embeddings and neural networks, within a 12-week sprint
- Built Streamlit app with model training, evaluation, and interactive PyVis visualizations
- Created comprehensive bioinformatics and data science training materials to onboard and support student participants

### UTM

#### Research Assistant

JB, Malaysia

Mar 2023 - Jul 2024

- Assisted supervisor with lecture preparation and exam grading in Business Intelligence and Statistics courses
- Peer-reviewed IEEE Access manuscripts on advanced computer vision, including UAV object detection and OCT image segmentation

### Huawei Technologies Co Ltd

#### Network Performance Analyst

KH, Sudan

Jan 2019 - Dec 2019

- Diagnosed coverage issues across **120+** cell towers using Genex Probe; optimization contributed to **11% drop** in call-drop rate
- Created automated reports in Excel/VBA and Genex Assistant, reducing weekly analysis time from 8h to **1h**

## Key Projects

### GDAP: Gene-Disease Association Prediction

2024-2025

- Built ML pipeline to predict gene–disease links using graph embeddings and curated biomedical data (Open Targets, STRING)
- Deployed Streamlit app for model training, evaluation, and interactive network visualization; project page

### Sheep Classification Challenge

2025

- Built a Vision Transformer solution using focal loss and class-balanced weights for sheep breed classification
- Developed semi-supervised learning pipeline with high-confidence pseudo-labeling ( $\geq 0.96$  threshold) and K-means clustering to generate 113 additional training samples (80% from unseen test set)
- Created weighted ensemble of 10 models (5-fold CV + 5 pseudo-labeled) achieving 0.97 F1-score on the public leaderboard

### AI-Powered Tweet Summarization

2025

- Built Python tool to fetch tweets (search queries or direct URLs), extract text and media, and structure outputs as JSON for downstream processing
- Summarized text with local LLM (Llama 3 via Ollama) and media with LLaVA using tailored prompts; designed for hourly runs (cron/cloud) within X API rate limits

### Face Analysis Kit

2025

- Developed a Python package for comprehensive facial analysis including gaze detection, eye state classification, and emotion recognition
- Built modular pipeline architecture using ResNet models for gaze detection and custom-trained FusionNet for eye state classification with RetinaFace face detection

### Medical Image Analysis

2024

- Implemented U-Net architecture with recurrent atrous spatial pyramid pooling, attention mechanisms, and RRCNN blocks for MRI brain tumor segmentation
- The model was trained for tumor segmentation and achieved a dice of 0.99 and mean IoU 0.90 on Brats 2019 dataset

### Unlocking SQL: Text-to-SQL App

2024

- Developed a generative AI application converting natural language to SQL queries using LLMs and Streamlit
- Featured in Ready Tensor's NLP Projects Expo 2024 for outstanding solution implementation

*Additional projects and open-source work at: [ahmedsalim3.github.io/projects/](https://ahmedsalim3.github.io/projects/)*

## Education

### Universiti Teknologi Malaysia (UTM)

JB, Malaysia

Master of Science in Data Science. GPA: 3.6/4.0

2022 - 2024

Published a book chapter on AI for plant disease detection in a UTM-published academic volume

### Future University

Khartoum, Sudan

Bachelor of Science (Honours) in Electronics Engineering.

2013 - 2018

Thesis: *Design and Implementation of an IoT-Based Smart Shopping Basket Using Arduino and RFID Technology*

## Certifications

IAIFI Summer School, IAIFI

Aug 2025

Certificate of Appreciation: Sheep Classification Challenge, DAL

Jul 2025

Outstanding Solution Implementation, NLP Projects Expo 2024, Ready Tensor

Nov 2024

Top Performer (Level 1), EY Open Science Data Challenge

May 2023

Azure Spark Databricks Essential Training, LinkedIn Learning

Apr 2024

SQL Server Reporting Services (2019), LinkedIn Learning

Apr 2024

Microsoft Azure Data Fundamentals (DP-900), Microsoft

Jan 2023

Microsoft Azure AI Fundamentals (AI-900), Microsoft

Jan 2023