

# Abdulmalik Alquwayfili

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🔗 Portfolio

## PROFILE

Passionate information systems student with a strong foundation in programming, data science and artificial intelligence. Committed to leveraging advanced technologies, including AI and SOTA tools to develop data-driven solutions that optimize decision-making and improve business performance. Excited to apply analytical and technical skills to real-world challenges, contributing to innovative projects, and driving meaningful insights.

## EDUCATION

**Reinforcement Learning, CS234, Stanford University** Nov 2025  
**Bachelor of Information Systems, Imam Mohammed Bin Saud Universty** Sep 2025

## EXPERIENCE

**AI Developer, Tahakom · NLP Department** Jul 2025 – present  
COOP trainee joining a newly established NLP department, contributing to projects in **text and speech processing, generation, and understanding** based on team assignments and evolving project priorities.

**Machine learning Engineer, Muragib** Mar 2025 – May 2025

- Trained, fine-tuned, and evaluated 10+ open-source BERT-based models (e.g., CAMEL BERT, AraBERT), achieving over 90% accuracy with <60ms latency, optimized for real-time applications.
- Developed and deployed advanced machine learning models for a wide range of NLP tasks, including sentiment analysis, sarcasm detection, location distribution analysis.
- Built scalable, AI-powered analytics systems that deliver actionable insights from unstructured text, empowering business stakeholders to make fast, data-driven decisions.

**Research And Development Engineer, وعي | Wae** Nov 2024 – Mar 2025

- Designed, developed, and deployed AI-based solutions for hands-on workshops and internal tools, directly impacting over 150 employees and 50+ students.
- Contributed to the design and delivery of educational and technical content, bridging the gap between AI theory and practice in professional settings
- Researched the latest AI tools and technologies to drive innovation.

**Software Developer - Artificial Intelligence VW, Microsoft** Jun 2024 – Jul 2024

- Developed and deployed an AI model using Azure Machine Learning for intelligent platform services.
- Built an AI-powered computer vision model using Custom Vision to recognize and classify images.
- Conducted data preprocessing and feature engineering for predictive analytics solutions.

## SKILLS

**Programming languages:** Python, Java, JavaScript, SQL, Cuda, PHP, Rust, C++, R

**Libraries, tools, and frameworks:** Transformers, TensorFlow, PyTorch, Keras, Scikit-learn, React, NLTK, OpenCV, Pandas, NumPy, Matplotlib, Seaborn, FastAPI, OpenAI, CoHere, Ollama, Pydantic, LangChain, , APIs, wandb

**DevOps & Environments:** Git, Bash, Linux, Ubuntu, Docker, Conda, Jupyter Notebook, Google Collaboration, Postman, Curls, Cursor

**Databases:** PostgreSQL, MongoDB, Qdrant, ChromaDB, Metabase, supabase, DBeaver, Alembic, SQLAlchemy

**Cloud:** Digital Ocean, AWS, Alibaba Cloud

**Model Architectures:** Attention, Transformers, BERT, RoBERTa GPT, RAG, EfficientNet, ConvNeXt, Agentic AI, MCPs, RNNs

## COURSES & CERTIFICATIONS

<b>AWS AI &amp; ML Scholars</b> , <i>AWS &amp; Udacity</i> <a href="#">↗</a>	Jun 2025
<b>Building AI Browser Agents</b> , <i>AGI, inc</i> <a href="#">↗</a>	Apr 2025
<b>How Transformer LLMs Work</b> , <i>Deeplearning.AI</i> <a href="#">↗</a>	Feb 2025
<b>LLMOps: Building Real-World Applications With Large Language Models</b> , <i>Udacity</i> <a href="#">↗</a>	Dec 2024
<b>Finetuning Large Language Models</b> , <i>Lamini</i> <a href="#">↗</a>	Dec 2024
<b>Open Source Models with Hugging Face</b> , <i>Hugging Face</i> <a href="#">↗</a>	Dec 2024
<b>Neural Networks and Deep Learning</b> , <i>DeepLearning.AI</i> <a href="#">↗</a>	Sep 2024
<b>Full Stack Deep Learning</b> , <i>The Ful Stack</i>	Dec 2024
<b>Data Analyst</b> , <i>STC, Virtual Work Experience</i> <a href="#">↗</a>	Jul 2024
<b>Python for Data Science, AI &amp; Development</b> , <i>IBM</i> <a href="#">↗</a>	Jun 2024

## PROJECTS

<b>Quantum Computing Security Research Agent</b> Advanced research agent leveraging Model Context Protocol (MCP) for quantum computing security research and cryptographic analysis. <b>Tools:</b> Cryptography, Python, MCPs, Cursor, Agents	Jun 2025 – present
<b>Farqad The Pioneer in Smart Financial Conversations</b> , <i>GP</i> <a href="#">↗</a> Farqad addresses the challenge of simplifying financial management and advice for Arabic and English-speaking users by developing a bilingual RAG chatbot with state of the art models, highly engineered and maintainable code <b>Tools used:</b> FastAPI, Pydantic, Ollama, ALLaM, Mongo, Qdrant, OOP	Dec 2024 – May 2025
<b>PerceiveAI</b> , <i>AI League Finalist</i> <a href="#">↗</a> This project aimed at making sports commentary accessible to the deaf and hard-of-hearing. By leveraging cutting-edge AI technologies, PerceiveAI translates live sports commentary into text then to sign language using animated avatars <b>Tools used:</b> SigML, CWASA, NLP, Transformers, JavaScript, ASR	Feb 2025 – Apr 2025
<b>Arabian Sheep Classification</b> , <i>Kaggle Computer Vision Competition</i> <a href="#">↗</a> Scored First in the leaderboard Day One and developed AI system for classifying 7 Arabian sheep breeds celebrating Eid al-Adha heritage, achieving championship-level 96.67% macro F1 score using ConvNeXt deep learning architecture with advanced data augmentation and Test-Time Augmentation techniques. <b>Tools used:</b> PyTorch, ConvNeXt, torchvision, scikit-learn, pandas, Kaggle API	Jun 2025