

OSAMA ALGHAMDI

Artificial Intelligence | Data Scientist | Digital Transformation

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Location: Riyadh

Summary

**AI & Data Science graduate** with hands-on experience building machine learning and RAG-based LLM systems for real-world decision support. Demonstrated strong business awareness through applied projects and practical experience at the Saudi National Bank (SNB), with top performance at the Saudi Digital Academy Data & AI Bootcamp.

Education

- University of Jeddah — Bachelor of Artificial Intelligence | GPA: 4.08 / 5

Oct 2020 – Jan 2025

Jeddah

- Focus on **data analytics**, **machine learning**, and **ethical AI**
  - Applied AI in **industry-based**, **business-focused projects**
- Saudi Digital Academy × Le Wagon — Data & AI Bootcamp

Feb 2025 – May 2025

Riyadh

- Intensive, full-time program in **applied ML**, **LLMs**, and **data-driven solutions**
  - Ranked Top 10** and led a **capstone project showcased to the Minister of Communications**
  - Delivered **data-driven solutions** for **real-world business and financial use cases**
- Saudi Data & AI Authority (SDAIA) — Professional AI Bootcamp

Dec 2025 – Feb 2026

- Selected participant** in a professional program focused on **applied AI**, **problem-solving**

Work Experience

- Saudi National Bank (SNB) | Data Engineering Intern, Finance

Jun 2024 – Jul 2024

Jeddah

- Analyzed 1M+ banking records using SQL and Python to support financial analysis**
  - Built 7 reports and 3 executive Power BI dashboards for data-driven decision making**
  - Applied predictive models to support financial forecasting and reporting workflows**

Awards

**3rd Place – AI Agent Hackathon**, organized under the **Ministry of Communications and Information Technology (MCIT)**, delivering an AI-agent-based solution among highly competitive teams.

Skills

- Soft Skills**• Leadership & Team Collaboration• Communication & Stakeholder Engagement• Problem Solving & Critical Thinking• Decision Making & Adaptability• Initiative, Self-Learning & Strategic Mindset
  - Arabic (Native) English (Fluent)**
- Technical Skills**• Python, SQL, Microsoft SQL Server• Data Analysis, Data Engineering, Data Pipelines• Machine Learning, Deep Learning, Generative AI, LLMs• Natural Language Processing (NLP)• Predictive Analytics• Power BI• PyTorch, TensorFlow, Scikit-learn• Hugging Face, LangChain• Git, Jupyter Notebook, MLOps

Certifications and Training

- Professional Certifications

- CompTIA Data+
  - Junior Data Scientist — INE
  - Data Science & AI — Saudi Digital Academy × Le Wagon
- Professional Learning Programs

- Deep Learning Nanodegree
  - Generative AI** Nanodegree
  - Power BI Career Track DataCamp

Projects

- RAG-Based Legal Document Q&A System (Labor Law)

- Built an end-to-end **RAG system** using **JinaAI embeddings**, **ChromaDB**, and **Gemini LLM** for legal decision support
  - Applied **semantic chunking**, **hybrid retrieval (keyword + vector)**, and **re-ranking** to improve answer precision
- VTAC – AI Assistant for Football Match Prediction

- Developed an **ensemble-based predictive model** for match prediction, achieving **~77% accuracy** and **log loss < 0.27**
  - Built a full-stack application using **Flask** and **React** to present predictions and insights
- Multi-Modal Sentiment Analysis (Team Project)

- Implemented a **Vision Transformer (ViT)** for image-based sentiment classification, achieving **~95% accuracy**
  - Collaborated within a team on a multi-modal deep learning system
- SAQR – AI-Based Metro Passenger Compliance System

- Verified VIP access in First Class cabins using face embeddings and similarity search.
  - Detected food and drink violations across First Class and Regular cabins.
  - Enabled embedding-based video search to locate individuals within metro recordings.