

SALMAN ALSHAWMAR

Data Engineer

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SUMMARY

Computer science with a strong foundation in Big Data, ETL, machine learning, and large language models. Intensely driven by a passion for data, I am committed to building solutions that work and refining them to excellence. Motivated by a desire to drive meaningful change and help shape what comes next.

EDUCATION

Al-Imam Muhammad Ibn Saud Islamic University , Riyadh, Saudi Arabia

Bachelor’s Degree in Computer Science | GPA: 4.36 | 2022 - 2025.

CERTIFICATIONS

Professional Training Program in Large Language Models(SDAIA)

Completed: April 2024 (2 months)

Introduction AI Program – KAUST University

Completed: February 2024 (1 weeks)

Advanced AI Program – KAUST University

Completed: March 2024 (1 weeks)

Cooperative Training Experience

Data Engineer Trainee — Wakeb Company

Big Data Department | Riyadh, Saudi Arabia | 2025/9/7 – 2025/12/7

- Built and maintained data pipelines using Hadoop, Kafka, Spark, and Hive on Ubuntu Linux.
- Managed data lakes, warehouses, and ensured data quality and governance.
- Worked with SQL and AWS to support scalable, cloud-based big data solutions.

PROJECTS

Intelligent Conversational AI with Context-Aware Responses

- Description:** Developed an AI-powered conversational system as part of a team, leveraging advanced machine learning models for natural language understanding. Responsibilities included fine-tuning the Mistral model (a variant of LLaMA), implementing semantic search using Sentence Transformers and Qdrant, and building an interactive user interface with Gradio. Managed deployment and scaling using Ngrok and cloud hosting solutions.
- Technologies:** Mistral, LLaMA, Retrieval-Augmented Generation (RAG), Sentence Transformers, Qdrant, Gradio, Ngrok, Cloud Hosting, APIs, NLP, Machine Learning, Fine Tuning

Sirb – Open-sourced eLearning System

- Description:** Built a collaborative learning platform where students share tutorials, articles, and discussions. Integrated adaptive learning using Retrieval-Augmented Generation (RAG) for personalized content delivery.
- Technologies:** Python, PyTorch, Hugging Face Transformers, Scikit-learn, FastAPI, PostgreSQL, Docker, Gradio, Pandas, NumPy

SKILLS

- Technical Skills:** Programming Languages (Java, Python, Dart, C#, SQL), AI & LLM (Gradio, LangChain, Retrieval-Augmented Generation [RAG]), Machine Learning (Supervised and Unsupervised Learning, Model Evaluation, NLP), Deployment & DevOps (Docker, Ngrok, Git).
- Soft Skills:** Problem-Solving, Communication, Teamwork, Time Management, Critical Thinking.

LANGUAGES

Languages: Arabic – Native | English – Professional Proficiency