

Khalid Abdullah Al Dosari

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SUMMARY

Focused on applied data science, AI and MLOps. Experienced in building end-to-end solutions built with python, deep learning, RAG, LLMs and agentic workflows, with a proven track record in building scalable, production-ready systems that turn raw data into actionable insights and real-world impact.

EDUCATION

Bachelor's degree, Computer Science, Imam Mohammad bin Saud Islamic University 08/2021 – Present
Riyadh, Saudi Arabia

- Built a strong foundation in **software engineering, machine learning, and artificial intelligence**, applied directly to deployed projects.
- **Media & Design Deputy Leader** at the Student Advisory Council and volunteer at Tuwaiq Club, Google Developers Students Club and Information Security Club.

SKILLS

- **Soft Skills:** Leadership, Project Management, Teamwork, Communication Skills, Problem Solving
- **Programming Languages:** Python, Java, JavaScript, TypeScript, SQL
- **AI & Machine Learning:** Data Science, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, RAG, Agentic Workflows, AI-Native Engineering, CNNs and RNNs
- **Libraries, Tools & Frameworks:** PyTorch, TensorFlow, Scikit-learn, LangChain, LangGraph, FastAPI, RestAPI, Next.js, Pandas, NumPy, Matplotlib, PowerBI, Excel
- **DevOps, & Environments:** Git, Bash, GitHub, Docker, Spring Boot, Maven, Jupyter, VS Code, Google Colab
- **Cloud & Databases:** Modal, PostgreSQL, MySQL, MongoDB

PROJECTS

Namtheg - Agentic AutoML Platform [🔗](#)

Developed an end-to-end **agentic automated machine learning** pipeline leveraging **Python, LangChain, FastAPI, Next.js, Modal, React** and **TypeScript**; built a full **MLOps stack** enabling users to upload raw datasets, train custom models, and deploy production-ready cloud APIs via Modal.

Nusuk - Agentic Elective Courses Recommender

Designed an **agentic** recommendation system with **python, Node.js, MongoDB** and **JavaScript** that parses PDF/text academic transcripts and maps historical grade distributions, therefore increasing recommendation alignment based on user-specific academic history.

3ajib - AI Powered Experience Intelligence [🔗](#)

Developed an **AI-powered** tourism analytics platform for the PwC Empowerthon, securing 4th place out of 11 teams. Integrated a bilingual AI demo, ROI calculator, and analytics dashboard using **React, TypeScript, Supabase** and **JavaScript**.

Cashy - Cash Back Optimizer [🔗](#)

Engineered a credit card cashback optimization algorithm in **Java** to implement and benchmark **Brute Force** ($O(n^m)$) against **Greedy** ($O(n^*m)$) approaches to demonstrate performance trade-offs.

N-Queens CSP

Implemented and compared **Backtracking**, **Forward Checking**, and **Maintaining Arc Consistency (MAC)** algorithms with **Java**, **Spring Boot** and **Maven** to solve complex Constraint Satisfaction Problems (CSPs).

LALR Parser [↗](#)

Engineered a deterministic context-free grammar parser with **Java**, **Spring Boot** and **Maven**, constructing full canonical LR(1) item sets and successfully merges same-core states into a functional LALR table. Containerized the backend application using **Docker** and exposed the parser mechanics via a **REST API** to a custom visualization interface.

LEADERSHIP & EXPERIENCE

Media and Design Deputy Lead, *Student Advisory Council*

09/2025 – Present

- Managed team efforts by leading meetings, assigning tasks, reviewing performance and setting goals.

Zone Manager, *THA Staffing /Part Time*

01/2026 – 05/2026

- Supervised teams of up to 25 members in several critical and prestigious events and conferences for multiple government and private entities.

Team Supervisor, *Webook /Part Time*

10/2024 – 11/2025

- Supervised teams of up to 30 members during high-traffic events and conferences.

LANGUAGES

- Arabic
- English

CERTIFICATES

Supervised Machine Learning: Regression and Classification [↗](#)

DeepLearning.AI

Calculus for Machine Learning and Data Science [↗](#)

DeepLearning.AI

Introduction to Data Science in Python [↗](#)

University of Michigan

Data Science Bootcamp [↗](#)

OSS Vision Community

Python Programming [↗](#)

Ministry of Communications and Information Technology (MCIT)