

Osama Dabbousi

Research Assistant

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617650-9335
Boston, Massachusetts, 02130, USA

Core Skills

Distributed Systems, Databases,
Deep Learning, Numerical Optimization,
Python (Programming Language),
Research, Communication, Analytical Skills,
Leadership, Education,
Software Engineering, Git / Github, C++

Education

King Abdullah University of Science and Technology

Aug 2024 - Dec 2025

Master of Science Computer Science

Boston University

Sep 2020 - May 2024

Bachelor of Science Data Science
GPA 3.9

Awards

Academic Achievement Award

May 2024

Boston University

Awarded for achieving the highest academic standing and demonstrating exceptional collaborative skills and commitment in my capstone project.

Work Experience

Research Assistant

Sep 2023 - Present

Machine Learning Research Group - Boston University | Boston

- Developed a meta-learning pipeline for cancer classification tasks.
- Built deep learning modules integrated into the pipeline.
- Implemented a distributed system using SSH protocols for cloud-based model training.

Teaching Assistant

Jan 2023 - May 2024

Boston University | Boston

- Supported courses in Algorithms, Natural Language Processing, and Statistics.
- Led discussions and office hours for 30 students, clarifying complex concepts.
- Strengthened communication skills by presenting advanced topics in an accessible way.

Data Scientist Intern

Jun 2023 - Aug 2023

Aramco Services | Boston

- Developed a retrieval-augmented generation (RAG) pipeline integrating ChatGPT and embedding-based similarity search to generate cited, accurate responses to user questions.
- Engineered a robust interface utilizing text embeddings and large language models (LLMs) for high-quality, context-aware answers.
- Launched a user-friendly web application, enabling company employees to seamlessly access the pipeline.

Data Scientist Intern

Jun 2022 - Dec 2022

Aramco Services | Houston

- Designed a pipeline to create a benchmark dataset of 10, 000 geological thin-section images.
- Built a CNN-based program to extract and filter 50, 000 images from academic articles.
- Developed weakly supervised neural networks for hierarchical classification of thin sections.