

## Experience

### AI Developer Intern

Sep 2025 - Jan 2026

#### Oppotrain

- Build an Arabic media editing platform that takes raw news text, rewrites it based on an editorial policy, and can optionally turn the final article into a talking AI news avatar video — fully automated using n8n.
- Build a Retrieval-Augmented Generation (RAG) system that can understand, index, and retrieve information from a large collection of CVs/PDFs, then answer semantic queries accurately.

### AI Developer Intern

July 2024 - Sep 2024

#### Asal Technologies: Mind Map Generator

- Built the summarization system for node topics using Azure AI summarization APIs.

## Projects

### Career Recommendation System (RAG) | [GitHub](#) | Python | ChromaDB

Sep 2025 - Jan 2026

- Built a **Retrieval-Augmented Generation (RAG)** system to semantically search and retrieve information from large collections of **PDF resumes**.
- Designed and compared multiple **chunking strategies** (paragraph-based, semantic chunking, and KamradtModifiedChunker) to improve retrieval quality.
- Generated dense embeddings using **SentenceTransformers (MiniLM-L6-v2)** and stored them in **ChromaDB** for vector similarity search.

### Road Sign Detection System | [GitHub](#) | YOLO | ResNet

Feb 2025 - Jun 2025

- Built a real-time traffic sign detection system using YOLOv8 for object detection and ResNet18 for image classification.
- Achieved high mAP scores at IoU thresholds of 0.5 and 0.75 > 90% ; conducted extensive evaluation on both bounding box precision and class accuracy > 90%.
- To be integrated with raspberry pi in the future to make toy cars detect the signs and make decisions based on it

### Automatic Essay Grading | [GitHub](#) | mistral7B | Flask

Feb 2025 - Jun 2025

- Fine-tuned Mistral-7B-Instruct using Unislot & LoRA for grading student essays based on rubric-based datasets.
- Designed effective instruction-based prompts and contributed to model fine-tuning using Unislot and LoRA.
- Integrated model inference with a web-based interface using Flask, HTML, CSS, and JavaScript for user-submitted essay grading.

## Technical Skills

**Programming languages :** Python, C++, HTML, CSS, JavaScript, Scala.

**AI Frameworks & Libraries:** LangChain, scikit-learn, OpenSearch, TensorFlow, Spark, Pandas, Numpy

**Web Frameworks & Libraries :** ReactJS, Node.js, Express, Bootstrap, Flask, Django.

**Databases:** SQL, MongoDB, ChromaDB (vector DB)

**Tools:** Git, GitHub, Slack, Trello

## Education

### An-Najah National University

Aug 2022 - Feb 2026

Computer Science Apprenticeship (CAP) (Focus in artificial intelligence engineer ).

**Featured Courses:** Fundamentals of Artificial Intelligence, Advanced Topics in Machine Learning, Data Mining, Natural Language Processing(NLP), Big Data Engineering, web I (frontend specific), web II (backend specific), Programming Principles I & II (C++ specific), Data Structures, Algorithm Analysis and Design, Introduction to Probability Theory, Database Systems, Develop AI solutions in Azure course(from microsoft).