

Zeina El Dika

ML Engineer

ML engineer with hands-on experience in machine learning, data analysis, and web development. Skilled in building predictive models and developing data-driven solutions across different domains

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EXPERIENCE

Aug 2024 – Present

Graduate Research Assistant | American University of Beirut

- Built machine learning models for data-driven problems across domains
- Designed data pipelines and evaluated model performance

Aug 2024 – Present

Graduate Teaching Assistant | American University of Beirut

- Supported students in engineering courses and lab sessions

Aug 2024 – Present

Researcher | Chehab Lab, American University of Beirut

- Contributed to AI research in different domains

Aug 2023 – Oct 2023

Web Developer Intern | IDS

- Developed full-stack web applications and database integrations

SKILLS

Programming

Python, SQL, Java, C++

Machine Learning

Classification, Feature Engineering, Model Evaluation

Data Science

Data Cleaning, Visualization, Statistical Analysis

Frameworks & Tools

Scikit-learn, Pandas, NumPy, Matplotlib, WFDB

Web Development

HTML, CSS, JavaScript, Node.js

Other

Problem Solving, Analytical Thinking, Teamwork

PROJECTS

Pacemaker ECG Labeling & Analysis Platform

Developed a website for ECG annotation and dataset creation to support AI model development

Effect of GNRI on Wound Complications

Analyzed the impact of the Geriatric Nutritional Risk Index on post-surgical wound complications in elderly patients, applying statistical modeling and machine learning techniques to identify risk patterns

Teaching Support Agent for Moodle

Developed an agentic AI system integrated with Moodle for quiz generation, grading assistance and QA support using LLM orchestration, RAG, and MCP tools to enhance learning efficiency for students and instructors

AI-Powered Early-Warning Heart Monitoring System

Developed a system that analyzes real-time health data to predict heart attack risks and notify users and doctors via Telegram chatbot

Crowd Analysis using Deep Learning

Developed a head detection model for crowd analysis and safety-oriented computer vision applications

EDUCATION

2024 – Present

M.E. Electrical and Computer Engineering (AI track) | American University of Beirut

CGPA: 3.71

2019 – 2024

B.E. Electrical and Computer Engineering | AI Maaref University

CGPA: 3.69

CERTIFICATIONS

Google Data Analytics | Coursera

AI for Good | DeepLearning.AI

AI for Everyone | DeepLearning.AI

Web Development Bootcamp | Udemy

AI Challenge | Zaka

AWARDS

3rd Place | C++ Competition

5th Place | AI Challenge

LANGUAGES

Arabic | Native

English | Professional proficiency