

Hussein Farhat

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Profile

Gained hands-on experience in web development using HTML, CSS, and JavaScript to build dynamic web applications. Proficient in programming languages such as Java, C++, and Python, with a strong focus on object-oriented design and software development methodologies. Skilled in data analysis and web scraping, with a growing enthusiasm for Machine Learning and its real-world applications.

Education

Computer Science Sep 2021 – Jan 2025
Al Maaref University, Beirut

Employment

Sales Feb 2025 – Present
DownTown Cell, DownTown, Beirut, Lebanon

Manager Sep 2023 – Feb 2025
OMT, Mar elias, Beirut, Lebanon

Internships

Data engineer Jul 2024 – Sep 2024
DgPad, Beirut
Conducted data scraping and sentiment analysis on content from the Al Mayadeen website, leveraging modern data engineering and NLP techniques. Utilized Python libraries such as BeautifulSoup for web scraping, Pandas for data manipulation, and Stanza for natural language processing—including sentiment analysis and named entity recognition, particularly in Arabic text. Developed backend services using Flask and stored data in MongoDB via PyMongo. Built an interactive frontend dashboard using HTML, CSS, JavaScript, and amCharts to visualize trends and insights. Gained valuable experience in end-to-end data workflows, API integration, and version control with Git, enhancing both technical and analytical capabilities.

Projects

Senior Project – PathWise

Developed *PathWise*, a full-stack web platform designed to streamline academic planning for university students. Utilized HTML, CSS, and JavaScript for frontend development, with PHP and MySQL powering the backend to ensure secure and efficient data handling. Enabled students to request personalized semester plans, rate and review courses, and participate in academic Q&A with peers.

Personal details

Nationality
Lebanese

Skills

Python Programming

Web Development

Flask API Development

Machine Learning

Web Scraping with Python

Advanced Data Analysis and Insights

Dashboards

Languages

English
Arabic

Hobbies

- Coding
- Learning new skills
- Writing
- Watching movies
- Hiking

Integrated a senior advising feature where experienced students provide tailored course recommendations based on academic history. Implemented key functionalities such as an interactive dashboard, editable course history, plan comparison tools, and real-time notifications. Emphasized usability, data integrity, and user engagement to support informed academic decision-making and enhance the student experience.

AI Project – Water Portability Prediction

Built a machine learning model using k-Nearest Neighbors (KNN) to predict water portability based on chemical properties such as PH, solids, sulfate, and turbidity. Performed data preprocessing, including mean imputation for missing values and train-test splitting (80/20). Conducted model evaluation using different k values to optimize accuracy. The project demonstrated the application of AI in solving real-world health-related problems.

Courses

Fakker Ai Ai & Machine Learning Course	Present
Explored advanced AI techniques with a focus on practical applications, model deployment, and ethical AI practices	
Python and Git With Fakker Ai Program	May 2025
Learnt the fundamentals of Python programming and Git version control to build and manage code efficiently	
OMT	Oct 2023
certificate from omt company	