

Muhammad EL WAZIR

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EDUCATION

Lebanese American University, Byblos, Bachelor of Science in Computer Science *Aug 2022 – Present*

- Earned a merit-based entrance scholarship based on academic excellence.
- Expected Graduation Date: May 2025.
- Relevant courses: Software Engineering, Machine Learning, Algorithms and Data Structures, Operating Systems, Database Management Systems, Web Programming, Parallel Programming, Introduction to Data Science, Computer Networks.

SKILLS

Machine Learning: Python, R -- **Database & Data Management:** Postgres, Pandas, MySQL, SQL – **AI:** Numpy, Keras, MediaPipe — **Frameworks:** Laravel, Node.js, React.js – **Programming Languages:** Java, Python, JavaScript, C, PHP – **Version Control:** Git, GitHub – **Concepts:** software engineering, machine learning, computer vision.

EXPERIENCE

MooveToHealth LLC, Computer Vision Intern *Jun 2024 – Jul 2024*

- Developed algorithms to detect and compare poses of the human body using Python.
- Implemented pose estimation algorithms using libraries such as OpenCV and MediaPipe.
- Extracted features from the detected frames, including landmarks and jointconnection orientation, to create a comprehensive representation of each frame for analysis and comparison.

Integrated Digital Systems, Full-Stack Web Development Intern *May 2024 – Jul 2024*

- Built Database using MySQL along with performing CRUD (Create, Read, Update, Delete) operations.
- Created dynamic web pages and web applications using the PHP scripting.
- Used PHP OOP to create classes, objects, inheritance, encapsulation, and polymorphism.

PROJECTS

Lebanese American University, Coursework

AI workout Assistant *Sep 2024 – May 2025*

- Designing machine learning models in Python using deep neural networks to detect and compare human poses to provide real-time workout form and technique feedback to users.
- Using MediaPipe for pose estimation, integrated its output with custom algorithms that assess user motion accuracy and consistency for a variety of exercises.
- Designing a user-friendly front-end interface using React, allowing users to easily interact with the AI assistant.

Car Price and Loan Default Prediction Using Machine Learning *Oct 2024 – Nov 2024*

- Preprocessed and analyzed large datasets for car price prediction and loan default classification using R.
- Conducted exploratory data analysis with visualizations to identify key patterns and relationships.
- Built regression models (linear, multiple, logistic) to predict car prices and default probabilities, incorporating feature engineering to optimize performance.
- Validated model accuracy using resampling, achieving high predictive accuracy and actionable insights.

LANGUAGES

- Arabic (Native)
- English (Fluent)
- French (Intermediate)