

Hiba Wehbe

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EDUCATION

Bachelors in mathematics option: **Data Science (BS)**
Saint Joseph University of Beirut (USJ), CLN, North Lebanon
GPA: 3.4/4.0
Dean's honor list: Fall 22-23.

September 2022-May 2025

Lebanese Baccalaureate, **General Sciences**
Minieh high school, Minieh, Lebanon
Graduated with distinction (17/20).

Septembre 2019-June 2022

Certifications

- **Introduction to Computing and Programming using Python** – American University of Beirut (AUB)
- **Uncovering Business Intelligence with Power BI** – Khwarizme (Jan 2025)
- **Data Analysis Bootcamp** – Khwarizme (Jan–Feb 2025)
- **Deep Learning for Innovation** – Khwarizme (April 2025)
- **Mobile Application Development** – UNICEF GIL Program (dot Lebanon)
- **Robotics Training** – UNICEF GIL Program (dot Lebanon)

Projects

Audio Intelligence Web Platform (Senior Project)

Technologies: Flask, Python, HTML/CSS, JavaScript, 1D-CNN, VGG, Librosa, Deep Learning

- Developed a full-feature web application for processing and analyzing audio files with:
 - **Deepfake Audio Detection** using a trimmed VGG model
 - **Audio Emotion Recognition** using a custom 1D Convolutional Neural Network
 - **Text-to-Speech (TTS)** and **Speech-to-Text (STT)** conversion features
- Integrated multiple deep learning pipelines into a user-friendly web interface.
- Preprocessed audio using signal processing libraries and trained models on labeled audio datasets.

Book Recipe Web App

Technologies: Flask, HTML, CSS, JavaScript

- Developed a full-stack recipe platform allowing users to input ingredients and receive dish recommendations.
- Implemented filtering by dish type (main, sweet, beverage) and by chef; enabled public chef profiles with like/follow functionality.
- Designed user roles: personal, business (chef), and admin (with content/user control access).

American Sign Language (ASL) Alphabet Recognition

Technologies: MATLAB, Deep Learning Toolbox

- Built a machine learning system to recognize ASL alphabets from images using KNN, SVM, and CNN.
- Compared model performance and selected CNN for deployment due to its superior accuracy.

Skills

Languages: Arabic (native), English (fluent: reading, writing, & speaking), and French (fluent: reading, writing & speaking)

Computer skills: Microsoft Office, Python, C++, SQL, MIT app inventor, web designer.