

# Hiba Wehbe

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## EDUCATION

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Bachelors in mathematics option: **Data Science (BS)**

September 2022-May 2025

**Saint Joseph University of Beirut (USJ)**, CLN, North Lebanon

GPA: 3.4/4.0

Dean's honor list: Fall 22-23.

Lebanese Baccalaureate, **General Sciences**

Septembre 2019-June 2022

**Minieh high school**, Minieh, Lebanon

Graduated with distinction (17/20).

## Certifications

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

## Projects

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### 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.

## Extracurricular activities

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- Participated in employability workshops with Professional Insertion USJ:
  - portfolio creation.
  - cv writing and interview success.
  - project management.
- • **Workshop:** "Digital Safety in Times of Conflict and Crisis"  
Presented by Mr. Moemen Alakili, organized by DDD Community (December 2024)

## Skills

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

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