Hiba Wehbe
Data Scientist

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Professional Summary

Detail-oriented Data Science graduate with experience in analysis, visualization, and predictive modeling. Skilled in Python, Power BI and SQL. Seeking to apply expertise in AI and machine learning to build scalable, real-world data solutions

Education

Bachelors in mathematics option: **Data Science (BS)**   (Sept 2022-May 2025)
Saint Joseph University of Beirut (USJ), CLN, North Lebanon
Dean's honor list: Fall 22-23, Spring 24–25.

Lebanese Baccalaureate, **General Sciences**   (Sept-May 2022)
Minieh high school, Minieh, Lebanon
Graduated with distinction (17/20).

Academic Projects

HR Analytics Dashboard (Power BI)
- Designed a full HR analytics dashboard that improved visibility into attrition hotspots, overtime exposure, and hiring pipeline efficiency.
- Enabled HR managers to track YoY trends, tenure patterns, and workforce risks using interactive visuals and AI driven insights.

Geospatial Access to Healthcare During Displacement (Power BI)
- Mapped hospitals and displaced populations to identify areas with limited healthcare access.
- Helped NGOs prioritize medical support and allocate resources effectively.
- Calculated distances to quantify hospital capacity strain and guide data driven planning.

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.

Certifications

Employment Hub – The Nawaya Network   (Aug 2025 – Ongoing)
- Intensive program focused on soft skills, career coaching, and technical upskilling.
- Career coaching and specialization in Business Intelligence / MEAL.

Lloyds Banking Group – Data Science Job Simulation (Forage)   (Aug 2025)
- Built a customer churn prediction model (Random Forest) achieving ROC-AUC 0.82.
- Optimized accuracy with GridSearchCV and feature importance analysis.

Deloitte Australia – Data Analytics Job Simulation (Forage)   (Aug 2025)
- Conducted data analysis and classification in Excel.
- Built a Tableau dashboard for KPI monitoring and anomaly detection.

Data Analysis Bootcamp – Khwarizme   (Jan – Feb 2025)
- Performed data cleaning, EDA, and hypothesis testing on real datasets.

Deep Learning for Innovation – Khwarizme   (Apr 2025)
- Applied CNNs for computer vision and RNNs for NLP tasks.

Introduction to Computing & Programming with Python – AUB   (Jul – Dec 2024)
Robotics Training – UNICEF GIL Program (dot Lebanon)   (May 2024)

Skills

Data Visualization: Tableau, Power BI, Excel
Programming & Tools: Python, R, SQL, MATLAB, C++, Flask, HTML/CSS/JavaScript
Languages: Arabic (Native), English (Fluent), French (Fluent)