

# Abir Melhem

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## About

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Computer Science undergraduate specializing in Artificial Intelligence and Data Science. Passionate about applying machine learning, deep learning, and data analysis to solve real-world problems. Strong self-learner with hands-on project experience and a drive to contribute to innovative teams.

## Education

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2023 – Expected Graduation: 2026

### **Bachelor of Science in Computer Science – Track: Artificial Intelligence & Data Science**

Beirut Arab University-Faculty of Science, Tripoli, Lebanon

2022 – 2023

### **High School Diploma – General Sciences (SG)**

Rawdat Al Fayhaa High School, Tripoli, Lebanon

## Technical Skills

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- **Languages:** Java, Python, C++, C#, Ruby, R, JavaScript, Kotlin
- **Web Development:** HTML, CSS, React, PHP
- **Databases:** MySQL, SQLite, MongoDB
- **AI/ML:** PyTorch, TensorFlow, scikit-learn, OpenCV
- **Data Science & Analytics:** NumPy, Pandas, Matplotlib, Seaborn, Microsoft Excel, Power BI
- **Design & Prototyping:** Figma, MIT App Inventor
- **Tools & IDEs:** Git, GitHub, VS Code, Eclipse, PyCharm, Jupyter Notebooks, Google Colab
- **Concepts:** CNNs, Transfer Learning, Image Classification, OOP, Data Structures, Agile Basics, UML

## Soft Skills

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- Problem-Solving
- Teamwork & Collaboration
- Communication & Public Speaking

- Time Management
- Continuous Learning

## Certifications

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- IBM Data Science Professional Certificate – Coursera (IBM)
- HCIA – Big Data – Huawei
- AI Basics: Overview of Artificial Intelligence – Huawei
- IC3 GS5 Digital Literacy Certification
- Introduction to Cybersecurity Awareness – HP LIFE

## Community & Professional Development

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- DevFest Attendee – Google Developer Group (2 events)
- Cybersecurity Workshops – Including “Inside the Mind of Ethical Hackers”  
(Semicolon Security, Nov 2025)
- AI & Machine Learning Workshops – Participated in hands-on sessions and technical talks
- Public Speaking Development – “Voice of Influence” Workshop  
(DDD Community)

## Projects

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### Lifespan Age Transformation

[GitHub](#) | Spring 2025

- Developed a deep learning model to predict and visualize age progression in facial images using CNNs and OpenCV.
- Implemented preprocessing pipelines for facial data and generated synthetic aging outputs.

## Face Analysis (Real-time Emotion Detection)

[GitHub](#) | Spring 2025

- Built a Python-based application for real-time face detection and emotion recognition with TensorFlow and OpenCV.
- Achieved 92% accuracy on benchmark datasets; implemented facial attribute analysis and live webcam detection.

## Event Management System (Team Project)

[GitHub](#) | Fall 2024

- Collaborated in a team of 4 to develop a relational database using Microsoft SQL Server for managing events and attendees.
- Designed ER diagrams, implemented total disjoint specialization, and wrote advanced SQL queries for insights.
- Contributed to schema optimization, data integrity, and DDL/DML scripting for a scalable backend.

## Languages

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