Sarah Habhab

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EDUCATION

Lebanese American University   **Beirut, Lebanon**
Master of Science in Data Science   *August 2025 - Present*
- **Relevant Coursework (in progress):** Python for Data Science, Statistics for Data Science, Deep Learning

Lebanese International University   **Nabatieh, Lebanon**
Bachelor of Science in Computer Science | GPA: 3.83/4.00   *October 2022 - June 2025*
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Database Systems, Software Engineering, Data Structures and Algorithms, Operating Systems, Computer Architecture, Mobile Applications
- **Awards/Honors:** Dean's honor list for the academic years 2022-2023, 2023-2024, 2024-2025.

PROJECTS

Full-Stack Bioinformatics Project   **Flutter, Python, FastAPI, PostgreSql**
Genetic Disease Risk Prediction App
- Developed a mobile app that predicts the possibility of a couple passing on genetic diseases to their child by analyzing parental inputs using machine learning models trained on scientifically validated medical data.
- Implemented role-based access for users, doctors, and admins with secure login and data encryption.
- Enabled real-time risk predictions, exportable reports, and doctor-patient-family direct messaging.
- Supported medical research by providing doctors with anonymized data analytics and family linkage insights.

Machine Learning Project   **Python, NumPy, Pandas, Scikit-learn, TensorFlow**
Brain Tumor Detection from MRI Images
- Used Convolutional Neural Network (CNN) in TensorFlow to extract pixel features and detect tumor patterns.
- Implemented K-Nearest Neighbors (KNN) with Scikit-learn to classify MRI images as tumor or non-tumor.
- Preprocessed images by resizing, normalizing, and augmenting to improve model performance.
- Conducted development and experimentation in Google Colab using real MRI datasets.

LEADERSHIP EXPERIENCE & ACTIVITIES

Lebanese Red Cross   **Nabatieh, Lebanon**
Youth Sector   *January 2025 - Present*
- Facilitated Psychosocial Support (PSS) activities for diverse age groups during various occasions.
- Collaborated with local organizations and schools to spread awareness about different topics.
- Earned certifications in Psychological First Aid and Protection from Sexual Exploitation and Abuse, to support vulnerable individuals in crisis situations.

SKILLS & INTERESTS

Computer: Python, Java, SQL, Dart, Flutter, Machine Learning Development, Backend and Database Development, Software Engineering, Mobile App Development, Web Development, Microsoft Office
Soft skills: Project Management, Analytical Thinking, Time Management, Attention to Detail, Teamwork, Creative work
Languages: English, Arabic.
Interests: Data Science, Biomedical Data Science, Bioinformatics, Machine Learning, Artificial Intelligence