

ROUBA EL MADANI

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EDUCATION

Lebanese University Faculty of Information

Oct 2023 - June 2026

- Bachelor in Data Science

TECHNICAL SKILLS

- Programming:** Python, Java, C++, R, MySQL
- Data & AI:** Pandas, NumPy, ANOVA (R), Data Cleaning, Statistical Analysis, Forecasting Models, Data Mining, Sentiment Analysis, PyTorch, Data Analysis, Scikit-Learn, TensorFlow
- Libraries & Tools:** Selenium, Requests, Matplotlib, Streamlit, Flask, Regex
- Web Development:** HTML, CSS, JavaScript (Basic), PHP
- Other:** Power BI, OOP, Data Structures & Algorithms, Project Management, MIS

PROFESSIONAL EXPERIENCE

Data Analysis & Power BI Intern

Coders | Internship

- Developed interactive Power BI dashboards with KPIs and visualizations to support data-driven decisions.
- Performed data cleaning, transformation, and modeling using Power Query and DAX for accurate reporting.
- Collaborated with mentors to analyze datasets and optimize dashboards for clarity and performance.

PROJECT EXPERIENCE

Diabetic Retinopathy Detection: Deep Learning Project

Jan 2026

- Developed a system to classify retinal images into diabetic and non-diabetic cases
- Focused on early detection to support faster medical screening
- Improved model reliability using image augmentation and evaluation metrics

LU Scholars Analysis: Research Data Analysis Project

May 2025

- Collected and analyzed data about Lebanese University researchers and their publications
- Helped understand research performance by studying citation numbers and future trends
- Suggested possible research collaborations by comparing researchers' publication topics
- Created visual dashboards using python and flask

Data Pulse: Personalized Course Finder Web App

May 2025

- Helped students across academic backgrounds identify relevant online courses from multiple education platforms
- Built the app using Python and Selenium to scrape course data from 6 platforms: LAU, Zaka, DataCamp, EdX, FormaTech, Coursera
- Designed filtering and personalization features to align course recommendations with students' goals, budget, and interests

PROFESSIONAL DEVELOPMENT

AI Engineer Program - YouBee Academy

In progress (2025)

English Access Microscholarship Program - Alumni

Apr 2021 - Oct 2022

A two-year program funded by the US embassy implemented by Teach for Lebanon

EXTRACURRICULAR & VOLUNTEER WORK

Le Lycee National Scouts - Scouts Member

2012 - Present

- Engaged in leadership activities, teamwork, and community service initiatives.

Anti-Bullying Campaign for Disabled Individuals

Feb 2021 - Oct 2022

- Led a community project as part of the U.S. Embassy program, raising awareness about inclusivity.

LANGUAGES

Arabic: Native | **French:** Fluent | **English:** Fluent