

ROUBA EL MADANI

madanirouba@gmail.com | +961 71579651

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
- Libraries & Tools:** Selenium, Requests, Matplotlib, Streamlit, Flask, Regex
- Web Development:** HTML, CSS, JavaScript (Basic), PHP
- Other:** OOP, Data Structures & Algorithms, Project Management, MIS

PROJECT EXPERIENCE

LU Scholars Analysis: Citation Forecasting & Research Insights

May 2025

- Scraped data from all LU researchers profiles from Google scholar using Selenium
- Built a Flask dashboard to visualize forecasting citations (Winter's model)
- Suggested collaborations via cosine similarity on publication titles
- Produced multiple word clouds summarizing research topics and interests.

Data Pulse: Personalized Course Finder Web App

May 2025

- Built a Streamlit app using Python and Selenium to scrape course data from 6 platforms: LAU, Zaka, DataCamp, EdX, FormaTech, Coursera
- Extracted key course info (title, URL, price, duration) and enabled dynamic filtering by subject, price and platform
- Overcame captchas and dynamic content with Selenium workarounds

TagIt: Metadata Editing & Management Tool

May 2025

- Built a Streamlit app to view and edit metadata for files like PDFs, DOCX, PPTX, and images
- Created as part of a research project to offer a simple alternative to tagging tools

Web Design and Development

Dec 2024

- Created a local website for a veterinary clinic using HTML and CSS.

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

- Completed 360 hours of instruction lessons focusing on reading, writing, listening, and communicating.
- Attended workshops on community service projects, leadership exercises, and reflective activities.

Workshop & Training: "Future Prospects of AI & Strategic Foresight for Decision-Making"

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