# Mia Matar

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## EDUCATION

**BE in Industrial Engineering,** *American University of Beirut AUB*     *Sep 2022 – Present*
- **GPA: 4.0/4.0,** Entrance Merit Scholarship, Dean's Honor List Recipient, Coding Coach Scholarship.
- Minor in Data Science.

**French Baccalaureate,** *Collège Notre Dame de Jamhour*     *Sep 2007 – Jun 2022*
- **17.72/20**, High distinction.

## PROFESSIONAL EXPERIENCE

**Teaching Assistant,** *AUB Coding Coach Scholarship*     *Jan 2024 – May 2024*
- Led weekly 3 hours Python labs for 20 students registered in EECE 230, "Introduction to Computation and Programming".
- Conducted additional coding clinics to assist students in developing strong problem-solving skills.

**Quality Control Intern,** *Wardieh Holdings, 1month*     *May 2024*
- Conducted rigorous testing and analysis on petroleum and gas oils products.
- Ensured compliance with ASTM quality standards through documentation and reports.

**Undergraduate Researcher,** *MSFEA AUB*     *Feb 2025 - Present*
- Conducting research about representative days within the energy sector by analyzing clustering techniques.
- Exploring methods to improve model efficiency and accuracy in energy system planning (Python).

## PROJECTS

**Optimization System,** *Operations Research*     *Nov 2023*
- Developed a Linear Programming (LP) model to optimize production while adhering to quality constraints (Python).

**Inventory Management System,** *Operations Research*     *April 2024*
- Developed a Markov Chain model to optimize inventory control policies by analyzing re-order points.
- Forecasted demand to support workforce planning and ordering strategy (Python).

**Predictive Analytics for Home Appliance Pricing,** *Machine Learning*     *Nov 2024*
- Implemented Machine Learning algorithms (regression, classification, clustering) to categorize listings based on pricing.
- Developed a price prediction model using LightGBM to help online sellers set competitive prices (Python).

**Predictive Modeling and Risk Assessment in Real Estate Investments,** *Data Science*     *Dec 2024*
- Implemented Machine Learning algorithms (regression, classification, clustering) to identify opportunities and assess investments risks in real estate by forecasting property ROI (Python, R).

**Elevator simulation and dispatch optimization,** *Operations Research*     *Present*
- Developing a simulation of a two-elevator system in a high traffic intensity building by modeling queueing dynamics and peak hour congestion.
- Analyzing the impact of smart prepositioning and priority-based queueing to improve system efficiency (Arena)..

## EXTRACURRICULAR EXPERIENCE

**Summer Camp Animator,** Planned and organized games and activities for young kids.     *Jun 2022 – Aug 2022*
**Participant,** *Concours Général des Lycées,* Participated in a mathematical Olympiad     *April 2022*
**Experienced Pianist,** Learned piano with a private tutor and perform at some events     *Jan 2012 – Present*
**Technical Developer,** *IISE,* Developing a website to ease access to the club's resources (HTML, CSS).     *Oct 2024 – Present*
**Varsity Member,** *AUB Track & Field, AUB Women Rugby*     *Jan 2024 – Present*

## VOLUNTEERING AND COMMUNITY SERVICE

**Treasurer Subcommittee Volunteer Member,** *Lebanese Red Cross Youth Sector*     *Oct 2023 – Sept 2024*
- Engaged in community services including awareness campaigns, training, and cleanups.
- Member of the money taskforce: Organized fundraising shifts and managed financial data through reports and Excel sheets.

## SKILLS

**Languages**: Arabic (native), French (native), English (proficient).
**Computer Skills**: Python, SQL, R, Arena, MS Word, Excel, PowerPoint.