

Abdallah Elrizz



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RESEARCH

Using Machine Learning to Detect Misinformation During Conflict in Lebanon

Ongoing

- Developing a multilingual, crisis-oriented misinformation detection system for Lebanese Arabic, English, and French text using classical machine learning (TF-IDF with n-grams, Naïve Bayes, Logistic Regression, Linear SVM, and ensemble voting), evaluated on merged public datasets with per-language and cross-validation analysis.

PROJECTS

ML + Automation Pipeline

Ongoing

- Designing an ML-driven inventory analysis system for textile data; currently collecting, cleaning, and structuring historical inventory and transaction data to support future model training and automated workflows.

Smart Campus Management System

Fall 2025

- Built a full-stack campus management platform end-to-end, including system design, MySQL database schema, REST APIs, and a React frontend supporting bookings, issue reporting, and communication; deployed backend on Railway and frontend on Vercel.

HawaLibnan - Built a responsive multi-page web platform.

Fall 2025

Zoo Database Management System - Built a relational SQL database system.

Spring 2025

Lead Campus Ambassador at LAU Beirut, ZAKA

2025-Present

- Lead ZAKA's ambassador program at LAU Beirut, coordinating campus initiatives, presentations, and technical workshops.
- Work directly with ZAKA leadership and co-founders to plan strategy, develop outreach programs, and execute student-facing projects.
- Represent ZAKA in university collaborations, public events, and partnerships, driving adoption of ZAKA tools and programs on campus

Full Stack Software Engineer, Salesman & Depot Manager, RisetexCo.

2021-Present

- Developed and maintain a production inventory management system for a textile company (React, Express.js, MySQL). Worked on-site with stakeholders to gather requirements and iterate features using an Agile workflow. Implemented hierarchical fabric tracking, transaction logging, batch operations, unit conversions, and real-time analytics with a responsive Tailwind UI.
- Supervised staff and managed monthly distribution of 1,000+ fabric rolls to 50+ clients, analyzing inventory flow and delivery performance to improve operational efficiency by 15%.

Treasurer of the AIE Club, Lebanese American University (LAU)

- Manage the club's operations, organize events and technical sessions, handle budgeting and logistics, and support AIE initiatives across student AI activities at LAU Beirut.

Phonathon Caller, Lebanese American University (LAU)

2024-2025

- Engaged with alumni and donors to update records, as well as securing roughly \$3,000 in financial aid contributions for university programs

KEY SKILLS

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TECHNOLOGIES

- Programming: Python, Java, JavaScript, SQL, C
- Machine Learning: NumPy, Pandas, Matplotlib, scikit-learn, feature engineering, model evaluation
- Systems: Git, REST APIs, MySQL, schema design, deployment (Railway, Vercel)
- Automation: n8n (workflows, integrations)
- Languages: English (fluent), Arabic (fluent)

CERTIFICATES

- Generative AI & Prompt Engineering Specialization** – Google & Coursera (4 courses) 2026

EDUCATION

- Lebanese American University** - BS in Computer Science 2023-Present
- Rawdah High School** - Graduated with a Baccalaureate in General Sciences (GS) 2023