JAD GHAZI
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EDUCATION

- **American University of Beirut,** August 2025 – August 2026
  - Master of Science in Business Analytics (MSBA)
  - GPA: 4.1/4.0
- **American University of Beirut,** September 2022- May 2025
  - Bachelor of Science in Computer Science – Dean's Honor List (Fall 2024-2025)
  - Tracks chosen: Data Science, Machine Learning, Cloud Computing

EXPERIENCE

- **Software Developer (Contract) at Further Horizon**, Cyprus (Remote) , February 2026 – June 2026
  Live Product : https://deskdeals.co
  - Contributed to the development of DeskDeals an early-stage corporate perks marketplace serving employees, merchants, and companies with role-based dashboards – Currently live with 80+ merchants onboarded.
  - Bridged technical development and non-technical user needs by gathering feedback and translating business requirements into intuitive features, simplified workflows, and usability improvements.
  - Added new features to the React (Vite + TypeScript) frontend (offer discovery, QR-based redemption flow, OfferCard redesign, etc..), making the overall app flow more user-friendly and smoother for end users.
  - Drove the website from a partial prototype to a fully deployed, live product : fixing existing defects, extending the FastAPI/PostgreSQL backend, and managing deployment via Docker, Supabase, and AWS.
- **Part-Time Research Assistant at American University of Beirut (OSB Faculty),** September 2025 – February 2026
  - Conducted literature reviews on memory architectures in LLM-based multi-agent systems, synthesizing findings across data poisoning, prompt injection, and retrieval manipulation to identify gaps in current threat models.
  - Designed and implemented a multi-agent testbed (Analyst, Reviewer, Coordinator roles) using Ollama-hosted local models to empirically test memory poisoning propagation under shared vs. private memory configurations.
  - Proposed research directions and identified gaps during regular meetings with OSB faculty supervisor.

PROJECTS

- **RAG-Based Internship FAQ Chatbot – MSBA FYP, AUB MSFEA,** Lebanon, June 2026 – Present
  - Building a pop-up chat widget for AUB's MSFEA that answers student questions on guidelines, forms, and deadlines using retrieval-augmented generation, aiming to reduce repetitive email traffic to faculty members.
  - Architected the retrieval pipeline with FastAPI and pgvector/PostgreSQL for semantic search over course documents, containerized with Docker, with a lightweight vanilla JS frontend.
  - Led client coordination with the MSFEA department and IT, including a kickoff meeting and a structured document-collection workflow to populate the knowledge base.
- **AI Complaint Triage System – Code4Lebanon x Ministry of Economy and Trade Hackathon,** Lebanon, Jun 2026
  - Led a team of 5 to build an end-to-end triage engine for Lebanon's Ministry of Economy and Trade, scoring 1,000 consumer complaints across 141 establishments into a prioritized, explainable queue.
  - Trained a 3-estimator local ML classifier (logistic regression + sigmoid-calibrated variant + complement naive Bayes) over word and character n-gram TF-IDF features, reaching 98.4% ± 0.6% accuracy under stratified 5-fold cross-validation; character n-grams handled typos and mixed Arabic/French/English text.
  - Designed a queue-aware layer (repeat-offender patterns, and 7-day outbreak detection, risk-zone hard overrides) plus a React dashboard with evidence-word highlighting, per-complaint reasoning, and province heatmap.
- **Cryptocurrency Pump-and-Dump Detection,** Lebanon, March 2026 – May 2026
  - Built a supervised rare-event detection framework benchmarking five classifiers (Naive Bayes, Random Forest, XGBoost, Linear SVM, and a focal-loss DNN) across 5, 15, and 25-second resolutions on 327 Telegram-coordinated Binance pump events, using Python, scikit-learn, and XGBoost.
  - Designed a stricter, leakage-resistant evaluation protocol to produce more deployment-realistic results than La Morgia et al. (2021), using event-disjoint train/validation/test splits, threshold tuning, and bootstrap confidence intervals to eliminate the event-level leakage that inflates standard cross-validation.

SUMMARY SKILLS

- **Languages:** Fluent in French, English, Arabic (Reading, Speaking and Writing).
- **Computer skills:** Python, R, Java, SQL, AWS Cloud Services, Docker, Tableau, GitHub.
- **Concepts:** Machine Learning, Data Analysis, Statistical Analysis, Predictive Modeling, Time Series Forecasting,