

Jad W Azzam

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Highly analytical Data Science student with a strong mathematical foundation, actively applying ML techniques (Classification/Regression) via self-learning projects and Kaggle, ahead of university schedule proving fast and effective self-learning. Proven communication, organizational and instructional skills honed through 3+ years of teaching.

Education

Université Saint-Joseph de Beyrouth

2024-Present

Bachelor's in applied Math: Data Science- 87/100 (honor list)

Lebanese National Higher Conservatory of Music

2016-Present

Baccalaureate in piano performance: 85/100

Le Lycée National School

July, 2024

Lebanese baccalaureate, General Sciences- 92/100 (honor list)

Technical Projects ([Tap to view projects](#))

Neural Network & Probabilistic Classification (Palmer Penguins Dataset)

- Built Gaussian Naive Bayes and Multi-Layer Perceptron neural networks in **Python** to classify species.
- Implemented feature scaling, one-hot encoding pipelines, and optimized hidden layers via tuning loops.
- Evaluated error rates and generalization stability using 10-Fold Cross-Validation and confusion matrices.

E-Commerce Relational Database Management System (Mock Transaction Data)

- Designed a structured relational database schema modeling table dependencies and foreign key constraints.
- Authored complex analytical **SQL** queries (joins, aggregates, CASE logic) to track monthly revenue, inventory stock alerts, and customer trends.
- Populated schemas with over 50 rows of relational dummy data to validate query execution.

Exploratory Data Analysis & Classifiers (Iris Flower Dataset)

- Engineered an end-to-end classification pipeline using **Python (Pandas, NumPy, Scikit-Learn)**.
- Conducted exploratory data analysis (EDA) to map feature distributions and separate multi-class boundaries.
- Trained and compared baseline machine learning models to monitor predictive accuracy metrics.

Skills

Technical: Python (Pandas, NumPy, Scikit-learn), SQL, C++, R

Language: English (Fluent), Arabic (Native), French (Intermediate)

Statistical Modeling: Inferential Statistics, Hypothesis Testing, Regression, Matplotlib/Seaborn

Machine Learning: Classification, Regression, Feature Engineering, Model Evaluation

- ***Coursera Courses** completed in inferential and descriptive Statistics, Python programming, pure and applied mathematics (certification available)

Experience

LNHCM

Piano Instructor

2025-Present

- Optimized logistics, scheduling, and progress-tracking for 30+ concurrent students, demonstrating advanced stakeholder communication and organizational management.

Private Tutor

2022-Present

- Develop clear and concise explanations for complex concepts, significantly improving student comprehension and performance.

Interests

- Mathematics, Technology, Music, Human Nature, social activities, Philosophy, Physics, Chess