MIRA ABDUL-RAHMAN

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Objective

Dedicated data science student with a strong foundation in mathematics and statistical analysis. Passionate about leveraging data-driven insights to solve complex problems and drive innovation.

Computer skills

- Programming Languages: Python, C++, R , Matlab
- Data Analysis & Visualization: Experienced with tools like Matplotlib, Pandas, NumPy, and others for data processing and visualization
- Web Development: HTML, CSS , JavaScript , Flask
- Databases: SQL, MySQL

Education

2022-2025	Bachelor degree in Mathematics Option Data Science University of Saint-Joseph – Faculty of Science, Lebanon
2021-2022	Lebanese Baccalaureate II – Life Sciences Al-iman School

Certificate

7-8-9 January 2025	Uncovering Business Intelligence with Power BI-Workshop Khwarizme
2 February 2025	Artificial Intelligence for everyone –online course offered by Zaka

Projects

- **Strawberry Maturity Detection (Senior Project):** Designed a machine learning-based system for fruit maturity classification using advanced feature selection and dimensionality reduction techniques. Achieved high accuracy with models like SVM, Random Forest, and MLP.
- **Food Image Calorie Prediction:** Developed a machine learning system to predict calorie content from food images, using models like KNN and SVM. Achieved high accuracy and reliable performance through both hold-out and cross-validation methods.
- **Drug Review Sentiment Analysis:** Built an NLP pipeline to analyze drug reviews using TF-IDF, PoS tagging, and SpaCy-based extraction. Applied machine learning models for sentiment classification and visualized model performance through ROC and accuracy comparisons.
- **Expenses Tracker Web Application:** Developed a full-stack Flask web app for expense tracking with user authentication, including strong password enforcement and password change. Features include add/delete expenses, admin dashboard, search, image uploads, and secure login/logout.
- **Travel Website:** Created a responsive travel website with features like location search, booking, and travel guides using HTML and CSS.
- **Online Library Website:** Developed a system for borrowing and returning books in an online library.

- **E-Commerce Insights:** Analyzed e-commerce trends with Hadoop and MapReduce, using Python for data processing and integration.
- **Floppy Bird Game:** Built a Floppy Bird game using C++ and Raylib, implementing game mechanics and optimizing performance.
- **Music Playlist Management:** Developed a playlist management system using a doubly linked list, supporting add/remove/rearrange functionalities.
- **Zombie Survival Game with AI:** Created a zombie survival game utilizing the A* search algorithm for AI-driven enemy movement.
- **Titanic Survival Analysis:** Applied decision tree classification to predict survival outcomes based on the Titanic dataset.
- **Data Science Salaries Analysis:** Analyzed data science salary trends using data visualization tools to derive actionable insights.
- **Aluminum Economic Analysis Visualization:** Visualized global aluminum economic trends using data science tools to provide market insights.
- **FIFA World Cup 2042 Planning:** Planned a large-scale event using project management principles, covering budgeting, scheduling, risk analysis, and stakeholder coordination for a $4B international tournament proposal.

Languages

Languages Arabic (Native), English (Advanced), French (DELF B2) (Advanced)

Skills

- Microsoft Office Tools
- Adobe Photoshop
- Time Management
- Teamwork
- Problem Solving