

# Charbel N. Freije

charbel.freije@outlook.com | +961 81 112 981 | Jounieh, Safra, Lebanon

## EDUCATION

**42 Beirut, Beirut Digital District – Lebanon** July 2025 – Present  
level 1

- Enrolled in the 42 Core Curriculum, a project-based peer learning program focused on C programming, algorithms, debugging, and low-level system concepts.
- Gained strong practical experience in C programming, algorithms, debugging, and low-level system concepts.

**Saint Joseph University, Mansourieh – Lebanon** September 2023 – May 2026  
Bachelor In Data Science

- Majored in Data Science and maintained a GPA of 3.7 throughout the program.
- Served as President of the Faculty Student Council and represented student interests.

**Collège des Sœurs des Saints Cœur, Kfarhabab – Lebanon** September 2008 – June 2023  
Economical sciences degree

- Graduated with Honors.
- Served as class representative.

## PROFESSIONAL EXPERIENCE

**Masri, Data Entry – Sin El Fil, Lebanon** March 2025 – April 2025

- Assisted the Kompass division with structured data collection, outreach activities, and systematic information organization across departments.
- Conducted verification calls, updated official records, and ensured accuracy and reliability of all stored data.
- Handled government-issued documents while maintaining consistency, confidentiality, and proper record management standards.

**Starbucks, Barista – Ghazir, Lebanon** May 2024 – October 2024

- Prepared specialty beverages according to company standards while maintaining high service quality and attention to detail.

**Under Construction, Party organizer & Party PR – Beirut, Lebanon** February 2021 – November 2023

- Organized a thematic event for over 500 attendees and contributed to the execution of more than 25 large-scale events.
- Managed logistics, promotional strategies, and partnerships targeting Gen Z audiences across multiple events.

**Al shames, Waiter – Zahle-Aanjar, Lebanon** June 2022 – September 2022

- Delivered efficient and accurate service while maintaining a clean and organized dining environment during busy hours.

## SKILLS

**Technical Skills:** Python, C++, C, R, Machine Learning, EDA, Data Cleaning, Data Visualization, Scikit-learn, Pandas, NumPy, Matplotlib, SQL, HTML, CSS, Git, Shell, Jupyter

**Functional Skills:** Data Cleaning & Preprocessing, Statistical Modeling, Machine Learning Model Building, Database Design, SQL Query Optimization, Data Visualization, Insight Generation

**Soft Skills:** Problem-Solving, Analytical Thinking, Teamwork, Communication, Adaptability, Time Management

**Languages:** Arabic(Native), English(Fluent), French(Fluent)

## VOLUNTEERING

**Scout Du Liban, Team Leader – Kfarhabab, Lebanon** September 2022 – Present

- Participated in leadership training programs focused on responsibility, teamwork, and community engagement.
- Organized and contributed to community development initiatives and social engagement activities.

**Lebanese red cross, Fundraiser – Jounieh, Lebanon**

- Participated in fundraising campaigns that supported humanitarian and medical assistance initiatives.

## PROJECTS

**AutoML Pipeline for Regression and Classification (Academic Project)** September 2025 – December 2025

- Built a goal-aware AutoML framework that automatically detects the target, task type, and optimal preprocessing strategy from raw datasets.
- Implemented automated data cleaning, schema inference, feature filtering, and dynamic preprocessing using ColumnTransformer.
- Evaluated multiple ML models (including GPU XGBoost) with cross-validation and automatic hyperparameter search.
- Selected, trained, and evaluated the best pipeline using metrics such as Accuracy, F1, RMSE, and  $R^2$ .
- Developed a prediction interface and feature-importance extraction for model interpretability.

**Brain Tumor Detection from MRI using Deep Learning (Academic Project)** September 2025 – December 2025

- Built an end-to-end deep learning pipeline to classify brain MRI images using a custom CNN and transfer learning (VGG16, ResNet50).
- Applied image preprocessing and augmentation, class weighting, and training optimization using EarlyStopping and ReduceLROnPlateau.
- Implemented ensemble voting across models and evaluated performance using confusion matrices and F1-score metrics.
- Developed Grad-CAM from scratch to visualize model attention and improve explainability.
- Created a GUI application to upload MRI images, display predictions, and show Grad-CAM visualizations.

**Warehouse Management System (Academic project)** September 2024 – December 2024

- Developed a system to add, remove, modify, and store inventory items while ensuring efficient tracking and organization.
- Designed the system structure to maintain organized data handling and easy inventory management.

**Restaurant Database Using SQL (Academic project)** September 2024 – December 2024

- Designed a relational SQL database to manage orders, customer feedback, and complaints efficiently.
- Structured the database to improve operational efficiency and accessibility of stored information.

**PerfectHome - E-commerce Website (Academic project)** January 2023 – May 2023

- Developed a responsive website using HTML and CSS with a category-based navigation structure.
- Implemented a search bar and interactive carousels to enhance user experience and accessibility.