

# Hussein M. Chalhoub

AI Engineer - Data Analyst - Data Scientist

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## EDUCATION

### Master of Engineering in Artificial Intelligence

September 2024 – Present

Saint Joseph University of Beirut, Beirut, Lebanon

### Bachelor of Engineering in Computer Engineering

October 2019 – June 2024

Al Maaref University, Beirut, Lebanon

## PROJECTS

### AgriBot: Integrated Agricultural Management System

March 2024 – June 2024

Developed a full-stack web application combining E-commerce, an NLP-powered chatbot, and a plant disease detection system using deep learning.

- Achieved **93% accuracy in plant disease classification** using a custom **CNN model** trained on **15,000+ images**.
- Integrated a chatbot with **NLP (Python + Flask)** to provide real time agricultural advice, improving user engagement by **40%**.

### Restaurant Tip Forecasting Model

June 2024 – July 2024

Developed an Excel-based predictive model to forecast customer tips using historical restaurant data.

- Cleaned and preprocessed **250+ records**, handling missing values and encoding variables.
- Provided Built a **linear regression model** using Excel's Data Analysis ToolPak, achieving an RMSE of **92%** to quantify prediction accuracy.

### E-Commerce Website for Smartphones

April 2021 – May 2021

Designed and implemented a secure online store for purchasing smartphones with user authentication and transaction history.

- Developed encrypted **login/signup (Java + HTML/CSS)**, ensuring secure user data handling.
- Enabled credit card integration, product filtering, and stored purchase history per account.

## EXPERIENCE

### Web Development Intern at IDS

Aug. 2023 – Sep. 2023

- Designed and implemented **API endpoints in C#** for seamless **SQL Server** integration, enabling full **CRUD** operations.
- Collaborated with development teams to deliver scalable solutions following industry best practices

## COMPETITIONS

### AI Challenge Participant at ZAKA.AI

Nov 2023 - Dec 2023

- Detected fraudulent utility meter readings using Python

## TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, C++
- **ML/AI:** Computer Vision, PyTorch, TensorFlow, Keras, Scikit-learn, NLP
- **Data:** Pandas, NumPy, Power BI
- **Deployment:** Docker, Flask, ASP.NET

## SOFT SKILLS

- Critical Thinking, Teamwork, Problem Solving, Continuous Learning,