

Hussein El Saadi

Data Scientist | Data & AI Engineer

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Profile

Data Scientist and AI Engineer with hands-on experience building data pipelines, machine learning solutions, AI applications, and automated data workflows. Experienced with Python, AWS, Docker, Terraform, NLP, and Deep Learning, with a strong focus on turning data and AI solutions into practical, production-ready systems.

Professional Experience

- 01/2026 – Present
Beirut, Lebanon
- Data Scientist, AIAEC**
Develop and implement **data scraping pipelines** to collect **compliance and municipal data** from diverse sources. Evaluate and integrate **scraping tools** capable of extracting **structured information from PDFs and web pages** while preserving **document hierarchy**. Design automated workflows for **document discovery, parsing, and structured data extraction** to support **large-scale data processing and analysis**.
- 04/2026 – Present
Beirut, Lebanon
- Data Science Tutor, Preply** 
Maintain a **5-star rating** by delivering structured, personalized Data Science lessons focused on **Python, Machine Learning, Data Analysis, and AI**. Prepare hands-on exercises and real-world projects tailored to each student's goals, with an emphasis on **live coding, practical problem-solving, and clear technical explanations**. Help students strengthen their skills through project-based learning and step-by-step guidance.
- 07/2025 – 08/2025
Baabda, Lebanon
- Account Management Intern (Odoo), Mobile Arts**
During this internship, I worked with the NGO *Zahrat Al Ghaith* to implement **Odoo ERP** systems for small and mid-sized businesses that previously relied on manual process. I gained solid knowledge of **Odoo's functionalities** and its role in **improving municipal and business services**.
- 01/2025 – 04/2025
Beirut, Lebanon
- Data Engineer Intern, MacroVision Tech Agency** 
 - Completed hands-on training in **AWS, Advanced Python** (including unit testing), **Git/GitHub, CI/CD, Terraform, Docker, and AI Agents**.
 - Applied each topic through practical tasks, improving both individual and team-based project execution.
 - Built a **Slack-integrated chatbot** using **AWS Lambda, PostgreSQL, and LangGraph AI Agents**, capable of automated decision-making and task categorization.

Education

- 10/2025 – Present
Badaro, Lebanon
- Master Degree in Computer Science, Modern University for Business and Science (MUBS)**
I am currently pursuing a Master's degree in Computer Science at **MUBS** to deepen my expertise in **advanced technologies**, with a strong focus on **Artificial Intelligence, agentic systems, and research-oriented theory**. As the field continues to evolve rapidly, the program allows me to strengthen my **technical foundation** and continuously expand my **skill set**.
- 10/2022 – 06/2025
Beirut, Lebanon
- Bachelor Degree in Data Science, University of Science and Arts in Lebanon (USAL)** 
Developed **strong programming skills**, from foundational concepts to advanced data structures, with additional focus on **deep learning** and **Natural Language Processing**. Maintained a **GPA above 3.2**, and consistently excelled in technical coursework.

Projects

- 02/2025 – present
- Codingo** , *Smart AI-Powered HR Interviewer System*
Developed an **AI-driven HR interviewer** platform capable of conducting **end-to-end interviews** based on recruiter requirements and candidate resumes, with live interactive sessions. Deployed on **Hugging Face Spaces**, integrating multiple AI models for **text-to-speech (Bark TTS), speech-to-text (Faster Whisper), and context-aware question generation (Mistral)**. Implemented a **Retrieval-Augmented Generation (RAG)** approach to dynamically retrieve and deliver relevant interview questions in real time.

Skills

Java | Python | Flask | Deep Learning | Natural Language Processing | AWS | Terraform | Git/GitHub | Power BI | Programming | Statistical Modeling | Time Series and Forecasting | Docker | ML | Odoo | Business Process Analysis

Languages

English — Fluent
French — Proficient

Arabic — Native/Bilingual
Portuguese — Conversational