

# Hadi Cheayto

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## PROFILE

AI Engineer specializing in Machine Learning, NLP, and Large Language Models (LLMs), with hands-on experience in building AI-powered applications using LangChain, RAG, and OpenAI APIs. Experienced in developing end-to-end AI pipelines, integrating AI into real-world systems, and delivering scalable solutions.

Passionate about generative AI, research-driven innovation, and building intelligent systems that solve real-world problems.

## PROFESSIONAL EXPERIENCE

### AI & CRM Implementation Engineer

BMB Group – Beirut, Lebanon

June 2024 – Present

- Led the **implementation and development** of both **Creatio CRM** and **Microsoft Dynamics 365**, ensuring seamless integration and full customization to meet evolving business needs.
- Leveraged **AI Builder models** within **Microsoft Dynamics 365** to incorporate AI-driven insights into business workflows.
- Engineered tailored automation solutions using **Microsoft Power Automate**, **N8N** and **zappier** to streamline **workflows** and reduce human error.
- Integrated third-party AI services via **REST APIs** to enhance CRM data enrichment and decision-making.
- Conducted **training sessions and client meetings** to facilitate solution adoption, knowledge transfer, and optimization of CRM features.

## PROJECTS

### Conversational AI Chatbot for USJ AI Master's Program

- Designed and deployed a conversational AI chatbot using Rasa, implementing intent classification, entity recognition, and dialogue management.
- Built an end-to-end NLP pipeline including preprocessing, model training, and evaluation, improving response accuracy and user interaction. Trained the model using DIETClassifier, CRFEntityExtractor, FallbackClassifier, and ResponseSelector.
- Integrated the bot with WhatsApp (via Twilio) and a custom website widget (via Socket.IO).
- GitHub: [https://github.com/Hadicheayto/rasa\\_agent\\_chatbot](https://github.com/Hadicheayto/rasa_agent_chatbot)

### LLM Book Genie – AI Book Recommender & PDF Analyzer

- Developed an AI-powered application using LLMs, Retrieval-Augmented Generation (RAG), and LangChain.
- Implemented semantic search using embeddings (OpenAI) combined with FAISS and BM25 for hybrid retrieval.
- Combined OpenAI embeddings, FAISS, BM25, and LangChain RAG chains for high-quality retrieval.
- GitHub: <https://github.com/Hadicheayto/LLM-Book-Recommender-and-Analysis>

### AI-Powered Job Recommendation System Using Similarity Search

- Developed a smart job matching system that uses **semantic similarity** between resumes and job descriptions instead of outdated keyword matching.
- Embedded both resumes and job postings using **OpenAI embeddings**, then applied **Cosine Similarity** to compute match scores.
- Solved the problem of irrelevant job results by replacing keyword filters with **LLM-powered understanding** of natural language.
- GitHub: <https://github.com/Hadicheayto/AI-Job-Matcher-Similarity-Search>

### Spam / Ham Email Detection using NLP model

- Built a machine learning model to automatically classify emails as spam or ham.
- Used NLP libraries like NLTK and spaCy for text cleaning, **tokenization**, and **vectorization**.
- GitHub: <https://github.com/Hadicheayto/nlp-spam-detection>

## EDUCATION

### Saint Joseph University (USJ)

September 2025 – Present

*Master M2 AI – Beirut, Lebanon*

- Currently pursuing Master 2 in Artificial intelligence

### Saint Joseph University (USJ)

September 2024 – June 2025

*Master M1 AI – Beirut, Lebanon*

- Master 1 in Artificial Intelligence

### Saint Joseph University (USJ)

September 2021 – September 2024

*Bachelor degree cs – Beirut, Lebanon*

- Bachelor's Degree in Computer Science – Graduated in 2024
- Ranked 4th in class

## SKILLS

**AI & Machine Learning:** Supervised/Unsupervised Learning, Deep Learning, SVM, Random Forest, KNN, Linear Regression

**Natural Language Processing:** Text Classification, Named Entity Recognition, Transformers, spaCy, NLTK.

**Data Science & Analytics:** ETA, Data Cleaning, Feature Engineering, Pandas, NumPy, Model Evaluation, EDA, Matplotlib,

**LLM & Generative AI:** LangChain, Retrieval-Augmented Generation (RAG), Prompt Engineering, OpenAI APIs, LLM Orchestration, Vector Stores (FAISS, ChromaDB)

**Chatbot Frameworks:** Dialogflow and Rasa.

**Automation & Workflows:** Microsoft Power Automate, n8n, zappier.

**AI Tools & Frameworks:** Scikit-learn, TensorFlow, Keras, Power BI, Azure ML

**Software Engineering:** Python, C#, C++, Dart, Git, Firebase, PostgreSQL, ASP.NET, React, Flutter

**Soft Skills:** Strategist, Analyst, Problem-Solving, Adaptability

## LANGUAGE & INTERESTS

**Language:** Arabic (Native), French (Professional), English (Professional)