

Ahmad M. Mustapha
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About Me

AI Engineer and Backend Developer with strong system design expertise, specializing in building end-to-end AI solutions. Experienced in Machine Learning i.e. Scikit Learn, Pytorch, and Hugging Face. Experienced in AI Microservices i.e. Docker and FastAPI. Experienced in Agentic AI i.e. Agents, MCP, and RAG.

Education

From 2024 to present	American University of Beirut (AUB) Doctoral Researcher	Beirut, Lebanon
From 2018 to 2020	American University of Beirut (AUB) Master in Electric and Computer Engineering Major in Machine Intelligence GPA: 4	Beirut, Lebanon
From 2015 to 2017	Lebanese University Master in Information systems and Data Intelligence Rank: 1/13	Beirut, Lebanon
From 2012 to 2015	Lebanese University Bachelor in Computer Science	Beirut, Lebanon

Experience

From 2023 to present	AI Specialist Holonox <ul style="list-style-type: none">• Lead and contributed to the development and maintenance of multiservice applications• Set up the architecture• Django, FastAPI, Docker, AWS• MCP, RAG, FAISS• OpenAI, Hugging Face	Beirut, Lebanon
From 2022 to 2023	Career Break Traveled – Learned New Language	

From 2021 to 2022	<p>Java Developer Murex</p> <ul style="list-style-type: none"> • Maintained a business module • Agile Methodology • Java, Python, Spring, Spring Boot, Open API, REST, ... 	Beirut, Lebanon
From 2020 to 2021	<p>Machine Learning Engineer Veer</p> <ul style="list-style-type: none"> • Managed a Machine Learning project from A to Z. The project was related to Traffic Management • Data Cleaning, Data Munging, Data Visualization • RNNs, LSTMs, Regression, Pandas, NumPy, Plotly, Dash, K-means, T-SNE. 	Beirut, Lebanon
From 2018 to 2020	<p>Research Assistance American University of Lebanon (AUB)</p> <ul style="list-style-type: none"> • Implementing/Improving Bleeding Edge Unsupervised Deep Learning Models • Neural Networks Adversarial Samples • Unsupervised Deep Learning • Software Engineering Interaction with Machine Learning 	Beirut, Lebanon
From 2018 to 2020	<p>Multidisciplinary Engineer Self-Employed – Different Clients</p> <ul style="list-style-type: none"> • Computer vision models to detect vehicles in a tropical reserve in Africa. YOLO, Darknet. • Computer vision models to detect illness through lung X-ray images. ResNet. Tensor board, TensorFlow. • Predicting Arrhythmia fibrillation from ECG records. Longitudinal study. LSTM. Bidirectional LSTM, Time-to-event. Transformers. • Several Data Science and Machine Learning projects 	Beirut, Lebanon

Spring 2018-2019
Fall 2019-2020

Teaching Assistance (277 hours total)

American University of Lebanon (AUB)

- Teaching Introduction to Programming C++ / Matlab
- Teaching Computer Organization VHDL/PIC
- Software Tools (QT/Doxygen/Make Files/Unit Tests)

Beirut, Lebanon

From 2017 to 2018

Research Intern

University of Versailles (UVSQ)

- Handling Multidimensional Data from Moving Air Pollution Sensors
- Use R libraries to transform data into functions
- Implement a Spark/Scala-based framework to read sensory values, interpolate them into functions, apply analysis on them, ...

Versailles, France

Featured Projects

Chartly: Chartly is an open-source agentic python-based module builds on top of Odoop to allow users to generate charts summarizing their data using natural language. The app has a chat interface where the user can ask to get the data or to generate plots around them. The app uses OpenAI APIs. It provides usage statistics. It offers guardrails when generating SQL scripts or plotting scripts.

BeautifulMind: BeautifulMind is a dockerized python-based microservice audio journaling app. It allows mental illness patient to record their voice through WhatsApp which will then be transcribed and privatized using AI and be recorded in a database to be view later. The patients are registered by their doctors and their phone number is not recorded in the database for safety. The app uses OpenAI APIs. Django as a backend. FastAPI to expose AI services. And hosted on AWS EC2.

Papagaia: Papagaia is a production-grade dockerized python-based microservice AI app. It allows users to do speech-to-text and text-to-speech directly from WhatsApp. It uses OpenAI APIs. It is production-grade with tests, and monitoring using PostHog. Hosted on AWS EC2.

Munica: Munica is a dockerized python-based RAG chatbot. It answers users' questions regarding a specialized domain. It uses OpenAI embeddings API to build the document index. It uses FAISS to host the document index and retrieval of documents. The RAG module is encapsulated in an MCP server.

Skills

Languages: Fluent in English and Arabic.

Soft Skills: Communication, Teamwork, Setting Goals, Planning

Technical Skills: Python, FastAPI, Docker, Django, Scikit Learn, Pytorch, Hugging Face

References

Dr. Wes Masri, Professor at George Mason University, US, wmasri@gmu.edu

Portfolio

For more interesting details check my online [portfolio](#) or scan the QR code



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