Ahmad M. Mustapha
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About Me

I am an AI engineer and Software Developer with diverse experience in academia and industry in multiple domains like Machine Learning, Artificial Intelligence, Data Science, and Backend Development. I strive and enjoy positions that require creativity, problem-solving, and analytical skill sets.

Education

From 2018 to 2020 — **American University of Beirut (AUB)** — Beirut, Lebanon
Master in Electric and Computer Engineering Major in Machine Intelligence
Relevant Courses Taken:
Applied Parallel Programming CUDA, Natural Language Processing, Adv. Data Science

From 2015 to 2017 — **Lebanese University** — Beirut, Lebanon
Master in Information systems and Data Intelligence
Relevant Courses Taken:
Data Mining, Big Data, Machine Learning, Decision Support, Distributed Applications, Real-Time Analysis
Rank: 1/13

From 2012 to 2015 — **Lebanese University** — Beirut, Lebanon
Bachelor in Computer Science

Experience

From 2023 to Present — **Mustapha Technology Institute** — Beirut, Lebanon
Founder and Lecturer
- Educational startup to fill educational gaps
- Taught and developed learning materials
- E.g. Intro. to machine learning – Online presence for developers – Intro to Python – CV building

From 2022 to 2023 — **Career Break**
Traveled

From 2021 to 2022 — **Java Developer** — Beirut, Lebanon
Murex
- Maintained a business module
- Agile Methodology
- Java, Python, Spring, Spring Boot, Open API, REST, …

2021 (8 months) — **Machine Learning Engineer** — Beirut, Lebanon
Veer
- Managed a Machine Learning project from A to Z

- The project was related to Traffic Management
- Data Cleaning, Data Munging, Data Visualization
- Learning Prediction. Python, RNNs, LSTMs, Regression, Pandas, Numpy, Plotly, Dash.

From 2018 to 2020 — **Research Assistance** — Beirut, Lebanon
American University of Lebanon (AUB)
- Implementing/Improving Bleeding Edge Unsupervised Deep Learning Models
- Neural Networks Adversarial Samples
- Unsupervised Deep Learning
- Software Engineering Interaction with Machine Learning

From 2018 to 2020 — **Multidisciplinary Engineer** — Beirut, Lebanon
Self-Employed – Different Clients
- Computer vision models to detect vehicles in a tropical reserve in Africa.
- Computer vision models to detect illness through lung X-ray images
- Python Script to scrape and sort by price selected goods from different online providers
- Several Data Science and Machine Learning projects

Spring 2018-2019
Fall 2019-2020 — **Teaching Assistance (277 hours total)** — Beirut, Lebanon
American University of Lebanon (AUB)
- Teaching Introduction to Programming C++ / Matlab
- Teaching Computer Organization VHDL/PIC
- Software Tools (QT/Doxygen/Make Files/Unit Tests)

From 2017 to 2018 — **Research Intern** — Versaille, France
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, …

From 2015 to 2016 — **Occasional Private Tutor** — Beirut, Lebanon
- Introduction to programming (C/C++)
- Introduction to Web Development

Publications

- Mustapha A., Zeitouni K. and Taher Y. (2018). Towards Rich Sensor Data Representation Functional Data Analysis Framework for Opportunistic Mobile Monitoring.GISTAM

- Mustapha A., Khreich W., Masri W. (2021) A Deep Dive into Deep Cluster
- Mustapha A., Khreich W., Masri W. (2021) Inter-model Interpretability: Self-Supervised Models as a Case Study

Conferences

- 4th International Conference on Geographical Information Systems Theory, Applications and Management, GISTAM 2018, Funchal, Madeira, Portugal. Presented the paper Towards Rich Sensor Data Representation - Functional Data Analysis Framework for Opportunistic Mobile Monitoring.
- 34th IEEE International Conference on Data Engineering ICDE20 18. Paris. Guest.
- Junior Conference on Data Science and Engineering JDSE2018. Paris Saclay. Guest.

SKILLS

Languages: Fluent in English and Arabic.
Soft Skills: Communication, Teamwork, Setting Goals, Planning
Technical Skills: Java, spring, Python, Scikit-Learn, R, Pytorch, Tensorflow, MatplotLib, Plotly, Dash

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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