Jimmy Jokhadar
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Education

American University of Beirut BEIRUT, LEBANON FEB 2023 – Present
M.S. in Computational Sciences.
Completed coursework with a 4.0 GPA. Working on my thesis about Deep Learning Optimization.
Expected graduation: September 2025.

Lebanese University HADATH, LEBANON SEP 2020 – JUL 2022
M.S. in Nanoscience and Functional Materials.
Thesis: Quantum Machine Learning for Finance.

Lebanese University FANAR, LEBANON SEP 2017 – AUG 2020
B.S. in Physics.

Professional Experience

American University of Beirut, LEBANON
Graduate Research Assistant APR 2024 - Present
- Developing a deep learning optimization project using PyTorch to increase model generalization.
- Training on AUB's HPC clusters fastening experimentation and tuning process.
- Coordinating progress in weekly advisor meetings.

Graduate Assistant FEB 2023 - DEC 2024
- Implemented an automated geological data digitization process for the Geology Department, increasing speed by 80%, and directed the proofreading team.
- Taught and supervised undergraduate physics labs. Clarified theoretical concepts and assessed student reports.

Instructor JUN 2024 - AUG 2024
- Led instruction for **Physics 211L: Electricity and Magnetism Laboratory** guiding 30+ students through labs, ensuring safety and clarity in experimental procedures.

Certifications

- **Machine Learning Specialization - ZAKA** SEP 2025
  Completed a 20-week Machine Learning Specialization covering Data Science fundamentals, ML algorithms, Deep Learning, Computer Vision, Natural Language Processing, and ML for production and research.
- **Harnessing the Power of Data with Power BI - Microsoft on Coursera** SEP 2024
  (5/8) more courses to complete the specialization.
- **Introduction to Data Science in Python - University of Michigan on Coursera** NOV 2020
Additional certifications can be found on my LinkedIn Profile.

Technical Skills

Tools & Languages: *Python, MySQL, MATLAB, Latex, Git/GitHub.*
Packages: *PyTorch, Tensorflow, Scikit-Learn, NumPy, SciPy, Pandas, BeautifulSoup, Matplotlib.*
Machine/Deep Learning: *Statistical Analysis, Linear/Logistic Regression, Clustering, Neural Networks.*
Familiar With: *Java, C, CUDA, HTML, CSS, PowerBI.*

Languages & Additional Information

- Arabic: Native, English: Intermediate, French: Intermediate.
- Technology: Ubuntu Linux, MacOS, Windows.
- Winner of AUB's Quantum Computing Hackathon 2025.
- Leader of a youth movement for 7 years.
- Interests: AI, Quantum Computing, Educational Engagement and Leadership.