

**Fatima Slim**

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## ***Professional Profile***

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I completed my bachelor's in Physics at Lebanon University, where I gained a strong foundation in physics and mathematics, achieving high marks in courses such as Analyze, Algebra, Vibrations, Waves, and Applied Mathematics. Subsequently, I pursued a Master's in Aerodynamics, deepening my knowledge in this field. I then obtained a Master's degree in Biomedical Physics, specializing in image processing techniques for human detection and localization in search and rescue missions using UAVs. I am a diligent and motivated student who consistently excelled in my academic pursuits, never failing any exams or missing assignment deadlines.

## ***Core Skills***

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- Practical and academic experience in physics
- Proficiency in data science tools: Python, C++, Java
- Strong grasp of machine learning concepts, including supervised and deep learning
- Experience with TensorFlow and other machine learning frameworks
- Research aptitude with a track record of publications and conference presentations

## ***Education And Qualification***

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- **Machine Learning Specialization**  
Stanford University  
*Issued: Mar 2024*
- **Mathematics for Machine Learning Specialization**  
DeepLearning.AI  
*Issued: Dec 2023*
- **Master 2 in Medical Physics and Life Imaging**  
Lebanese University – Al Hadath - 2020  
*Appreciation: Good*  
*Modules studied include: Radiotherapy, Image reconstruction, Signal in Imaging, Dosimetry*
- **Master 1 in Physics Hydrodynamics**  
Lebanese University – Al Hadath - 2019  
*Appreciation: Good*  
*Modules studied include: Particle Physics, Physics of Plasma, Aerodynamic, Fluid mechanics, Ansys*
- **Bachelor degree in physics**  
Lebanese University – Nabatieh - 2018  
*Appreciation: Good*  
*Modules studied include: Physics, Math, Chemistry, Data science ( C++, Java)*

## ***Experience***

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- Published a paper I have done research publication "Toward AI-Assisted UAV for Human Detection In Search and Rescue Missions" (IEEE)
- Working on research about Real-time human detection in maritime environment using embedded deep learning
- Participate in the 2021 international conference on decision aid sciences and application (DASA'21)
- Acquired expertise in Probability & Statistics for Machine Learning & Data Science
- Proficient in Supervised Machine Learning techniques such as Regression, Clustering and Classification
- Familiarity with Advanced Learning Algorithms
- Working as Physics teacher

**Reference:** [Dr. Mostafa Rizk](mailto:mostafa.rizk@liu.edu.lb) (PhD, Researcher, CNRS – Lab-STICC, IMT- Atlantique, Brest, France):  
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