

# ZAHER AMASHA

## MACHINE LEARNING ENGINEER

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Beirut, Lebanon

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### PROFILE

Knowledgeable **Mechatronics Engineer** with a background in **mathematics** and **software development**. Skilled at **developing** and **testing data science** and **deep learning projects**, extracting important insights from data, and **implementing optimization methods**. Self-motivated, quick learner, meticulous, insightful, ambitious, and driven by **mind-bending challenges**.

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### KEY COMPETENCIES

- Skilled at **object orientation programming** using **Python** and **C++**.
  - Achieved **machine learning** skills and **data-driven techniques** (SVMs, KNNs, **decision trees**, **time-series prediction**, etc.).
  - Performed **proficiency** in **data analysis** and **creating valuable insights** from **data**.
  - Established practical experience in **building** and **testing a variety** of **deep learning architectures**.
  - Worked on **technical documentation**, proficiency in **MathWorks MATLAB** and basic knowledge in **SIMULINK**.
  - Gained familiarity with the **tools** and **libraries** of the **industry** (**Numpy**, **Pandas**, **TensorFlow**, **Keras**, **Scikit-Learn**, **Matplotlib**, **Jupyter Notebooks**, **version control** using **Git**, **PySpark**, **H5py**, **SQL**, etc.).
  - Earned **complex problem resolution** and **critical thinking**.
  - Achieved ability to take **leadership** when needed.
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### PROFESSIONAL EXPERIENCE

#### RESEARCH ASSISTANT

01/2023-Present

Rafik Hariri University(RHU) | Mechref - Lebanon

- Currently working on a **research project** with professor Iyad Faysal, in which I'm personally using **Neural Networks/Data Driven** approaches to speed up **Computational Fluid Dynamics (CFD) simulations**.
  - **Expected** around **20-30% speed up in run times** of such **simulations**.
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### EDUCATION & CERTIFICATIONS

#### BACHELOR OF ENGINEERING IN MECHATRONICS ENGINEERING

05/2024

Rafik Hariri University(RHU) | Mechref - Lebanon

#### MACHINE LEARNING SCIENTIST WITH PYTHON CAREER TRACK (93 HOURS)

08/2022

DataCamp.com

- Included **building, training** and **tuning classical machine learning models** like **tree-based models**, **cluster analysis** and **time series models**; and a variety of **deep learning architectures**.

#### DATA SCIENTIST WITH PYTHON CAREER TRACK (90 HOURS)

07/2022

DataCamp.com

- Included skills from **Data Manipulation/Analysis** to **hypothesis testing** and **building predictive models**.