

MOUSTAPHA DILATY

LinkedIn Profile | mdilaty@yahoo.com | mad51@mail.aub.edu | +96178990858 | Nabatieh, Lebanon

MACHINE LEARNING | ARTIFICIAL INTELLIGENCE | DEEP LEARNING

Solutions-focused, diligent Computer Engineer student with admirable personable traits in integrity, innovation, collaboration, and scientific rigor. Experienced in Python and machine learning with specializations in deep learning. Fluent in English and Arabic with basic knowledge in German. Capacity to solve complex problems, work independently on large-scale projects, and can thrive under pressure in fast-paced environments.

AREAS OF EXPERTISE

Data Structure Development
Deep Learning
Computer Vision

Assembly Language
Machine Learning
Computer Organization

Team Focused/Collaboration
CUDA Acceleration
FPGA Development

TECHNOLOGY PROFICIENCIES

C/C++(intermediate) | Python(intermediate) | VHDL (intermediate) | Xilinx Vivado(Intermediate)

EDUCATION

American University of Beirut, Beirut, Lebanon, (2017-present)

Bachelor of Engineering in Electrical and Computer Engineering
Cumulative GPA: 3.35/4.00(81.67/100)

RELEVANT COURSEWORK

FUNDAMENTALS OF DEEP LEARNING FOR COMPUTER VISION

2019

NVIDIA's deep learning course focused on training a deep neural network to detect whether or not an image contains a face and acquired the relevant certificate.

PYTHON FOR DATA SCIENCE AND MACHINE LEARNING BOOTCAMP

2019

Accomplished the completion of Jose Portilla's machine learning and data science course which introduces the fundamentals of machine learning algorithms including linear regression, logistic regression, support vector machine, Recommender Systems, and K means clustering, etc. while acquiring the knowledge of data science libraries such as Pandas, Numpy, Seaborn, Cufflinks, Nltk and Matplotlib and acquired the relevant certificate.

DEEP LEARNING AND NEURAL NETWORKS

2020

Successfully completed Professor Andrew Ng's deep learning course on Coursera, which required building an L-layer neural network to identify whether or not an image contains a cat and acquired the relevant certificate.

CONVOLUTIONAL NEURAL NETWORKS

2020

Successfully completed Professor Andrew Ng's convolutional neural network course on Coursera, which dealt with object detection, face recognition as well as neural style transfer, and acquired the relevant certificate.

RELEVANT PROJECTS

MEMORY GAME

2019

Collaborated with team members to create a game constructed strictly from assembly code. The code was downloaded on a well-suited integrated circuit (PIC16F84A) and tested for functionality on a printed circuit board.

AXI-LITE ACCELEROMETER IP BLOCK

2019

Developed an AXI-Lite SPI master block, its driver functions, and used it to interface with a Digilent PmodACL 3-axis accelerometer through one of the Pmod connectors on the ZedBoard.

OBJECT DETECTION

2020

Acquired Driving.ai's Silicon Valley image dataset, flattened the images, executed non-max suppression, and IOU to minimize the bounding boxes, and ran the training on a GPU which resulted in an algorithm very similar to YOLO that can classify cars, traffic signs and fire hydrants in one image.