Anis D. Ismail, Machine Learning Engineer

Munich, Germany • +49 176 25628696 • anis.ismail@lau.edu • linkedin.com/in/anisdismail • anisdismail.com

EDUCATION

Lebanese American University, Byblos, Lebanon *Aug 2017–Jun 2022*
BE in Computer Engineering CGPA: 3.82
- Distinguished List of the School of Engineering since Fall 2017
- Member of LAU Honors Program
- Full Merit Scolarship recipient

PROJECTS/PUBLICATIONS

Automated Generation of Chemical Reactions with Generative Language Models *Jan 2020–Present*
Under the Supervision of Dr. Joe Tekli, Electrical and Computer Engineering Department, LAU, Lebanon (In Progress)
- Tested and compared multiple generative language models architectures for augmenting existing chemical reactions datasets
- Investigated the effect of Generative Adversarial Models on improving the quality of the generated data.

Scheduling the Movement of Unmanned Aerial Vehicles in Connected Vehicular *Sep 2019–Present*
Networks Using Deep Reinforcement Learning
Under the Supervision of Dr. Wissam Fawaz, Electrical and Computer Engineering Department, LAU, Lebanon (Pending Publication)
- Developed a Dueling Deep Q-Network in **Python and Java** to minimize average packet delay in UAVs assisted VANETs and reached a **60% reduction** in average packet delay in single UAV assisted VANETs case.

Detecting Muon Momentum in the CMS Experiment at CERN using Deep Learning *Aug–Nov 2020*
- Developed multiple Deep Learning approaches to improve the precision of muon detector systems and reached an **accuracy of 85%** when testing on Monte-Carlo simulated data.

PROFESSIONAL EXPERIENCE

Computer Vision and Machine Learning Intern at BMW Group *Dec 2020–Present*
- Developed multiple components for 3D Collision Avoidance using Nvidia's Isaac, C++, and ROS to be integrated into the navigation stack of the Smart Transfer Robot.
- Currently developing a new API for optical character recognition for the BMW TechOffice Munich GitHub repository.

Technical Instructor Lead at Beirut AI *Oct 2020–Present*
- Responsible for supervising and guiding instructors in preparing their workshops for Beirut AI quarterly AI Weekends.
- Delivered the Introduction to Deep Learning with Pytorch workshop in the last AI Weekend in November 2020.

Machine Learning Intern at Zaka *Jul–Oct 2020*
- Worked on an image segmentation project to identify weeds and their stems from crops.
- Developed domain-specific metrics to evaluate the performance of multiple architectures on training and testing data.

Research Assistant at the Electrical & Computer Engineering Department, LAU *Sep 2019–Present*
Alumnus of the Research Science Institute at Massachusetts Institute of Technology *Jun–Aug 2016*

EXTRACURRICULAR & LEADERSHIP EXPERIENCE

President of the Artificial Intelligence Club at LAU *Sep 2020–Present*
Won first runner-up in BMW Group Beirut AI Hackathon 2019 at LAU *Oct 2019*
Ranked among top ten in the Lebanese Collegiate Programming Competition *Oct 2019*
Ranked among top five teams in LAU Collegiate Programming Competition *Mar 2019*

COMPUTER SKILLS

Programming Languages: Python, Java, C++, Bash shell
Data Manipulation and Visualization:
MS Excel, NumPy, Pandas, Matplotlib, Tableau, Jupyter
Machine Learning and Deep Learning:
Scikit-Learn, TensorFlow, Keras, Pytorch

DBMS Languages: SQL, MySQL, MS Access
Markup Languages & Web: HTML, CSS, Markdown
Version Control Systems: Git

LANGUAGES

- Arabic (Native)
- English (Fluent)
- French (Very Good), DELF B2