Yassir Mamouni

yassir.mamouni@outlook.com | +1(438).409.1253 | +33 6.21.11.01.19

EDUCATION

UNIVERSITY OF MONTREAL MILA QUEBEC AI INST.
Expected Sep. 2023 | Montreal, QC
Prof. M.Sc in Machine Learning
Focus on Machine Learning, Data Science, Deep Learning & Reinforcement Learning

CLAUDE BERNARD UNIVERSITY
August 2020 | Lyon, Rhône, France
B.Sc in Computer Science

LYON 1 UNIVERSITY INSTITUTE OF TECHNOLOGY
August 2018 | Lyon, Rhône, France
AT in Electrical Engineering & Information Technology

COURSEWORK

GRADUATE
Advanced Machine Learning
Deep Learning
Reinforcement Learning
Data Science
ML-Ops
Cloud Computing

UNDERGRADUATE
Operating Systems
Object Oriented Programming
Network
Unix Tools and Scripting
Computer Vision
Data Analysis
Electronics
Electrical Engineering

SKILLS

PROGRAMMING
Experienced:
Python • Java • C (system & structural) • Oracle/PostGre SQL • C++ (11 & 17) • BASH • LaTeX
Extra Libraries:
NumPy • Pandas • Scikit-Learn • PyTorch • TensorFlow • Gym • Librosa • BioPython • Node2Vec • OpenCV • PyGame.

PROFESSIONAL EXPERIENCE

DESJARDINS | Machine Learning R&D Intern
Aug. 2022 - April 2023 | Montreal, QC
- Research and implement improvements in Reinforcement Learning for Recommender Systems *(RL for RecSys)*.
- Literature reviews and research innovatory methods in RL for RecSys.
- Implement offline Reinforcement learning methods for Group recommendations.
- Report metrics and performance comparisons with *Weight & Bias*.

POLYTECHNIC MONTREAL | Computer Science Tutor
July 2021 – February 2022 | Montreal, QC
- Tutoring for a first-year student in Computer & Software engineering.
- Tutoring and private lessons in the following languages/areas: Object Oriented Programming in C++ • Git • Linux/BASH commands • Data Structure in Java • Propositional calculus

CASPOA (NATO AIR OPERATION CENTER OF EXCELLENCE) | Network Administrator Intern
June 2019 - Aug. 2019 | Air Force Base 942, Rhône, France
- Set up a network monitoring solution.
- Researched suitable solutions for the unit and presented them during meetings.
- Worked in a hyper-converged infrastructure (HCI).
- Installed Virtual Machines and monitoring services.
- Redacted an installation guide and procedures.

RESEARCH/PROJECTS

COMPUTER VISION RESEARCH PROJECT (2022)
Python (PyTorch), Jupyter, W&B, Git
- Analysis of Image Augmentation Methods on Different Types of Learning Problems.
- Compared different ML techniques' performance with image augmentation.
- Trained a ResNet-20 and an All-CNN on CIFAR-10 augmented dataset.
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HOCKEY PRIMER DATA SCIENCE PROJECT (2021)
Python, Jupyter, Comet.ML, Jekyll, Flask, Git
- Feature extraction/transformation from NHL Stats API into interpretable data for an ML Model.
- Training different ML models for the best goal prediction in a Hockey Match.
- Measurements and model registration with *Comet*.
- Report writing in Jekyll Blog-post format.
- Docker deployment.

TOOLS/APPLICATIONS
Visual Studio Code • Eclipse • NetBeans • Sublime • MATLAB • LabView • Arduino • Google Cloud Platform • Apache AirFlow • COMET • W&B

LINKS
Github: https://github.com/M0rph3e
Kaggle: https://www.kaggle.com/yassirmamouni
LinkedIn: https://www.linkedin.com/in/yassir-mamouni-b6b17515b/

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