

HADI EL KARHANI

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Languages: Arabic (native), English (bilingual), French (fluent)

Experience | 3+ years of ML & Software Engineering

Advview

Toronto, CA (Remote from Lebanon)

Machine Learning Engineer – ML Engineering team

Aug 2021 – Present

- Learned TensorFlow Recommenders in **2 months** and designed a personality-based Deep RS
 - Implemented the recommender system using Python with 300+ features to achieve **90%+** accuracy
 - Co-authored 2 provisional **patents** regarding AI systems we designed
- Presented the ML product to Verizon and in Collision Toronto which led to a **120%** reach increase

Lebanese Ministry of Industry

Beirut, LB

Technology Consultant of the Minister - Consultancy

Sep 2022 – Present

- Leading the Vision 2022 for the establishment of AI Tech. parks in Lebanon powered by the ministry

DevTech Inc.

Tripoli, LB

Tech. Lead & Machine Learning Engineer – Application Dev. team

May 2022 – Present

- Led the development of the FII Institute application
 - Managing a team of 7 people including developers, and designers increasing efficiency by **50%**
- Designed & developed an ML component in Python & TFX using **100,000+** data points with PySpark

3rd Pocket

Texas, US (Remote from Lebanon)

Machine Learning Engineering Intern – AI R&D team

Jun 2021 – Aug 2021

- Conducted a research study on Deep ML models **resulting in an executive decision** on future products

American University of Beirut

Beirut, LB

Software Engineering Work-Study – IT department team

Sep 2017 – Feb 2020

- Implemented an automated cybersecurity service in Python for **5,000+** students and staff
 - Used APIs, Web crawlers, and SQL to automate the sending of certified emails
 - Presented the service to the CEO of the IT department **resulting in the approval** of the service

PhishE

Beirut, LB

Machine Learning & Software Engineer – Project with TELUS Corp.

Sep 2021 – May 2022

- Designed & developed a phishing classifier using Machine Learning in collaboration with TELUS Corp.
 - Developed a hybrid domain checker using Decision Trees and XGBoost with an NLP model using SVC for phishing SMS, resulting in an accuracy & F1 score of **99%+** over **150,000+** cyber threats
- Deployed a MISP instance on AWS EC2 & GCP and established an API connection with the model

Education

American University of Beirut (AUB)

Sept 2017 - May 2022

Bachelor of Computer & Communication Engineering (CCE) – Specialization in AI and SWE

- **Relevant Courses:** Data Structures, OOP, Database Systems, Software Architecture and Design, Software Engineering, Machine Learning, Neural Networks (Deep Learning), Topics in AI (RL)

Skills

Languages: Python, Java, JavaScript, R

Technologies: TensorFlow, Keras, TFX, Pandas, NumPy, Matplotlib, OpenCV, Scikit-Learn, PySpark, SciPy, Django, Apache Beam, MySQL, Firebase, AWS, GCP, Docker, Linux, Jupyter, Jira