

MOHAMED IFQIR

AI & ML engineer

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PROFESSIONAL EXPERIENCES

Python developer

Royal Aero club of Marrakesh

July 2021 – July 2021

Marrakesh, Morocco

- Developing a data management application using SQL and software development frameworks for end-to-end application

Deep reinforcement Learning research internship

Centrale Lille

July 2023 – August 2023

France, Remote

- Developing Deep RL learning TD3 model for autonomous robot navigation as well as using Using ROS for environment modeling.

Data science internship

Cognizant inc

September 2023 – September 2023

USA, Remote

- Data preprocessing for supply chain data
- Machine learning algorithms applied in the realm of supply chain and logistics for optimizing the production and storage of groceries

EDUCATION

Master's degree in AI

National school for Computer science ENSIAS

Sep 2021 – Ongoing

Morocco

- Engineering degree in Machine learning and Artificial intelligence

High School Diploma

Sep 2016 – June 2019

Abou El Abbass EL Sabti

Morocco

- High school diploma in science

PROJECTS

Image search engine

- Developed an image search engine using OpenCV and image processing techniques.
- Used object detection in computer vision to find similarities between images inside the engine's database.
- Used different criteria to find similarities between images in shape, color, and even texture

Arabic text classifier NLP

- Developed an Arabic text classifier utilizing NLP techniques, including TF-IDF analysis, tokenizing, etc.
- Applied Stochastic Gradient Classifier to classify a text data preprocessed beforehand.

SOFTSKILLS

Learning Potential

Team Work

Organization

Flexibility

Professionalism

Responsibility

Work Under Pressure

Agile

Scrum

STRENGTHS

- Artificial intelligence & Development

Machine Learning

Deep Learning

Reinforcement Learning

Data science

Data Analysis

Big data

Computer vision

Mathematical modelling

Software engineering

Web development

Web Scraping

High Performance Computing

- Programming

Python

C/C++

Java

R

Javascript

HTML

CSS

SQL

PL/SQL

MongoDB

Neo4j

Hadoop

Spark

Kafka

CUDA

Docker

ROS

- ML&AI frameworks

Pytorch

Scikit-learn

OpenCv

TensorFlow

Keras

NLTK

TorchVision

Numpy

Pandas

Matplotlib & Seaborn

Django

- Computer skills

Microsoft Word

Microsoft Excel

Microsoft PowerPoint (PPT)

LaTeX

LANGUAGES

English

French

Arabic



OTHERS

- Certificate of honor in first aid training from Moroccan Red Crescent

Movies recommender engine

- Developed a movie recommendation system using Pytorch and Deep learning
- Used ANN as well as embedding for processing the data and then training the model on it
- High-performance computing using GPU "CUDA" for 20 M samples

Stock trader with Deep Learning

- Employed deep learning to develop a stock trading system for predictive analysis and decision-making.

Deep Reinforcement Learning AI bots

- Use of Deep reinforcement learning in creating AI agents to play games such as tic-tac-toe, Pacman etc.
- Trained state-of-the-art algorithms such as DDPG or DQN for popular video games and autonomous tasks

Stock market data scraper & parser

- Successfully executed web scraping to gather financial data, economy-related news articles, and related information from various sources.

Twitter Community detection

- Developed a graph-based unsupervised learning model to detect and analyze Twitter communities.
- Used graph data visualization to identify relationships between users, followers, tweets, etc.

Big Data Weather Analysis

- leveraged the power of MapReduce in Hadoop to efficiently process and analyze large volumes of weather data of MENARA station in Morocco between 1943 to 2023
- Used MongoDB to store the data and then visualized it using PowerBI

Natural language stories generator

- Preprocessed the text data by tokenizing, cleaning, and normalizing it. Remove stopwords, and punctuation, and perform stemming or lemmatization
- Used Graph learning representation in order to fit the data
- Used Graph Neural Networks (GNNs) to identify relationships between nodes such as characters, settings, plot .etc

Image generator web application

- Implementation of generative AI models to power an innovative image generator web application, enabling the automatic creation of diverse and customizable images based on user-defined parameters.

CERTIFICATES

Fundamentals of Reinforcement Learning

Coursera

📅 November 2023

📍 University of Alberta

- Successfully completed the online course "Fundamentals of Reinforcement Learning" offered by Coursera. The course covered essential concepts in reinforcement learning, including Markov decision processes, dynamic programming, and reinforcement learning.

Supervised Machine Learning: Regression and Classification

Coursera

📅 November 2023

📍 Stanford

- Successfully completed an in-depth course on supervised machine learning, focusing on regression and classification techniques, offered by Coursera. Gained practical experience in implementing regression models such as linear regression, polynomial regression, as well as various classification algorithms.