Younes IDSOUGUOU

Data Scientist

Experienced Data Scientist with over 5 years in the industry, demonstrating a proven track record in leading full-cycle projects. Adept at problem framing and approach definition with a keen focus on bringing tangible value to businesses. Skilled in the entire machine learning lifecycle steps with a seamless integration ML models into diverse applications (Web/Mobile/Embedded). Established proficiency in AI solutions monitoring, maintenance, documentation, and concise communication of results.

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WORK EXPERIENCE

Data Scientist
OCP SA

12/2018 - Present   *Jorf Lasfar*

Achievements/Tasks

- Advanced process control using a scenario-based recommendation approach. *#TimeSeries #Similarity*
- Enhancing slurry pipeline pumping stations reliability by predicting the Remaining Useful Life of its critical equipment. *#RegressionModels*
- Integrated road surveillance system: Vehicle speed estimation, violation detection, license plate recognition and reporting. *#ObjectDetection #Tracking #KalmanFilter*
- Deep Learning-Based Moroccan License Plate Detection and Recognition System. *#LPR #OCR #PyTorch #TorchScript*
- Optimizing phosphoric acid plant by adjusting sulfuric acid input flow to keep sulfates at nominal range. *#TimeSeries #DTW #Dash-Plotly*
- Deep Reinforcement Learning for optimal process control. *#DigitalTwin #DDPG #Gym*
- Machine learning for major elemental analysis of phosphate using laser-induced breakdown spectroscopy. *#LIBS #GLM*
- Autonomous Vehicles: Advanced perception algorithms, for obstacle detection using State-of-the-Art sensors. *#SensorFusion #ROS #PointCloud #LiDAR #Radar*
- PPE enforcement with camera systems capable of detecting safety compliance. *#ObjectDetection*
- Turbine anomaly detection using sensor data. *#IsolationForest*

Data Science Intern
OCP SA

02/2018 - 06/2018   *Jorf Lasfar*

Achievements/Tasks

- Predicted SO_2 emissions level with machine learning #GLM.
- Reduced emissions environmental impact by optimizing process parameters using heuristics. #SLSQP

EDUCATION

Executive Master in Data Science, Networking and Algorithmic Thinking
Mohammed VI Polytechnic University

10/2019 - 08/2020   *Benguerir*

Industrial Engineering Degree
École Mohammadia d'Ingénieurs

08/2015 - 08/2018   *Rabat*

SKILLS

Python · Machine Learning · Data Analysis · ONNX · Docker · MLflow · SQL · Linux · Nginx · Redis · ROS · Web Scrapping · Optimization · Dash/Plotly · Teamwork · Data Visualization · Communication · Problem Solving

PERSONAL PROJECTS

Hoverslam rocket landing (03/2020 - 06/2020)
- Developed a personalized rocket hoverslam landing control system communicating through RPC with the simulation environment. #kRPC #RocketLanding #SimulationControl

Autonomous highway driving (06/2019 - 09/2019)
- Autonomous driving system for trailer trucks on simulated highway environments. #CNN #Keras #PID

TRAININGS

Docker Training Course (09/2021 - 10/2021)
Kodekloud

Deep Reinforcement Learning Nanodegree (03/2020 - 09/2020)
Udacity

Self-Driving Car Engineer Nanodegree (04/2019 - 10/2019)
Udacity

Deep Learning with PyTorch (08/2018 - 09/2018)
Udacity

LANGUAGES

English
Full Professional Proficiency

French
Full Professional Proficiency

Arabic
Native or Bilingual Proficiency

Amazigh
Native or Bilingual Proficiency

INTERESTS

Photography · Cybersecurity · Aviation · Gaming · Running · Musical Instruments