Aboubker NAJDI

Data Scientist

CONTACT

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SOFT SKILLS

- Communication
- Team Work and Collaboration
- Creative Thinking
- Critical Thinking
- Problem Solving
- Active Learning

TECHNICAL SKILLS

Programming Languages
Python - JavaScript - C++

Artificial Intelligence
Machine/Deep Learning - Tensorflow- SciKit Learn - Computer Vision - OpenCV - Keras - Classification - Regression -Reinforcement Learning

Web Development
Front-end : JavaScript / HTML / CSS
Back-end : Node.js / Django / Flask
Databases : SQL / MongoDB

Robotics and Embedded Systems
Robots Operating System
Control Systems
Internet of Things (IoT)
Raspberry Pi / Arduino
Signal Processing

Softwares
MATLAB / SimuLink
LabVIEW Software

LANGUAGES

Arabic	Native
English	Proficient
French	Proficient
German	Beginner

INTERESTS

- Karate (Black Belt)
- Guitar Playing
- Learning Languages

OBJECTIVES

PhD Student in Smart Industry, seeking a challenging career with a progressive organization that provides an opportunity to capitalize my technical skills and abilities in the field of Artificial Intelligence and Robotics.

SUMMARY OF QUALIFICATIONS

- Predicted machine faults with 13,75% better accuracy than the previous models in Python.
- Improved Prognosis method that shows superiority to related studies using same dataset.
- Models implemented on the new Predictive Maintenance Platform of OCP morocco.
- First Master class honors award.

PROFESSIONAL EXPERIENCE

7/2020
Duration : 4 months

DATA SCIENTIST INTERNSHIP — PREDICTIVE MAINTENANCE

IT Department - Cherifian Phosphates Office OCP- Mohammed VI Polytechnic University

- Built AI models for Predictive industrial maintenance platform, based on data collection from field equipment and the use of Internet-of-Things (IoT) and data analysis techniques.
- Used { Python, Obspy, Pywavelets, Sklearn, Keras, Convolutional Neural Networks (CNN)} to classify the health conditions of rotating machines with a prediction accuracy of 99.75% in the diagnosis phase.
- Estimated the remaining useful lifetime of rotating machines using {Python, Obspy, Sklearn Keras, CNN, Gaussian Regression Processes} in the prognosis phase.

9/2019
Duration : 2 months

DATA SCIENTIST INTERNSHIP— PREDICTIVE MAINTENANCE

IT Department - Cherifian Phosphates Office OCP- Mohammed VI Polytechnic University

- Premilinary study of the predictive maintenace, project organization and planning.
- Vibrational data acquisition of rotating machines using Sensors and LabVIEW Software from equipment's field.
- The use of Wavelet Transform for signal processing {Obspy, Pywavelet, MATLAB}, creation of a new complex Wavelet.

CERTIFICATIONS

12/2020 — **DATA SCIENCE PROFESSIONAL CERTIFICATE - IBM SPECIALIZATION**

7/2020 — **HUAWEI ARTIFICIAL INTELLIGENCE - HCIA-AI**

1/2020 — **DEEP LEARNING - DEEPLEARNING.AI**

11/2019 — **MACHINE LEARNING - STANFORD UNIVERSITY**

EDUCATION

2020 - Now — **PHD - DESIGN AND DEVELOPMENT OF AN INTELLIGENT SYSTEM FOR PREDICTIVE MAINTENANCE OF INDUSTRIAL ROBOTS**
Sidi Mohammed Ben Abdelllah University - Fes

2018 - 2020 — **SPECIALIZED MASTER SMART INDUSTRY — INDUSTRY 4.0 (M.Eng.)**
Sidi Mohammed Ben Abdelllah University - Fes

2017 - 2018 — **VOCATIONAL BACHELOR'S DEGREE IN MECHATRONICS AND EMBEDDED SYSTEMS**
Sidi Mohammed Ben Abdelllah University - Fes

2014 - 2017 — **BACHELOR- ELECTRONICS**
Sidi Mohammed Ben Abdelllah University - Fes

ACADEMIC PROJECTS

2 / 2020 — Realization of an adjustable watch that allows data aquisition of temperature and humidity and enables the user to transfer this data by bluetooth or cloud to the database

1 / 2020 — Intelligent irrigation controlled by an iOS and Android application via ThingsPeak Cloud and MQTT.

5 / 2019 — Classification of German traffic signs with Python, Deep Learning and OpenCV.

7 / 2017 — Design and realization of a smart house controlled by voice recognition and Arduino Board.

ENTREPRENEURIAL PROJECT

H3D PROJECT (3D HOLOGRAM)

- 2nd prize in the competition for innovative projects at USMBA.
- Developed a low-cost Hologram made of glazing glass, able to project any given video with a simple rotational transformation of that video using an html link.