



Akrem GOMRI

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Data scientist

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EXPERIENCE

•TotalEnergies Digital Factory

Sep 2024 - March 2025

Data Scientist

Paris, France

- Applied signal analysis and signal processing to time series data from 33 wells internationally, each with 20 sensor variables, recorded over a 3-year period with data taken every 5 seconds.
- Tested different supervised and unsupervised approaches for anomaly detection using Deep Learning and Machine Learning approaches (Temporal Concolutional Networks, MAT-GAT an Attention graph based algorithm, Tsfresh with Keamns).

PERSONAL PROJECTS

•Human Activity Recognition using Video Classification

Feb 2024

This project aims to recognize activities performed by humans from video sequences.

- Several approaches were used and compared: Simple CNN, CNN + LSTM, pose detection, 3D CNN, Slow Fusion technique.
- Tools: Pytorch for pose detection and TensorFlow for the rest.

•Human Activity Recognition using Wearable Sensors

Jan 2024

This project aims to recognize activities performed by humans from raw data collected by wearable sensors.

- Extracted the dataset, then used the sliding window method to capture the pattern with a 2d CNN on the data, then used a layer using different ML approaches : Feed Forward Neural Network, SVM, Decision Tree, etc.
- tools: TensorFlow.

EDUCATION

•Paris-East Créteil University

Since Sept 2023

Master in Artificial Intelligence and Cyber-Physical Systems (IA2S)

Paris, France

•Higher Institute of Applied Sciences and Technology

Sept 2020 - Aug 2023

Computer Engineering, Software Engineering

Sousse, Tunisia

•Higher Institute of Applied Sciences and Technology

Sept 2018 - May 2020

Preparatory Studies in Math, Physics, Computer Science

Sousse, Tunisia

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Javascript

Development Tools: Git, Docker

Frameworks & Libraries: Pytorch, Tensorflow, Scikit-learn, Numpy, Pandas, Matplotlib, MLflow

Big Data Technologies: Spark, Databricks

Cloud Platforms: Amazon Web Service (AWS)

Databases: MySQL, MongoDB

Fields of Interest: Anomaly detection, Time series, Computer Vision, Natural Language Processing

CERTIFICATIONS

•Professional Certificate in AI Engineering, IBM - MUST University

May 2023 - Nov 2023

Link: [linkedin.com/in/akrem-gomri/details/certifications/](https://www.linkedin.com/in/akrem-gomri/details/certifications/)

•Certificate of Achievement in Artificial Intelligence, GoMyCode - Tunis

Jun 2020 - Aug 2020