

# Dr. ZOUHRI Houssam

Data Scientist & PhD researcher

UM6P, benguerir, Morocco

Specialized in AI, ML techniques, with expertise in developing intrusion detection systems and adversarial defense strategies. Skilled in deep learning, data analysis, and big data technologies.

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🐙 GitHub Profile

🌐 LinkedIn Profile

## EDUCATION

### •PhD in Cyber Attack Detection

Rabat, Morocco

02/2022 – Present

Mohamed VI Polytechnic University

### •Master: Data Science and Decision Support

Benguerir, Morocco

09/2019 – 07/2021

Mohamed VI Polytechnic University

## PERSONAL PROJECTS

### •Facial recognition system

Built a website for facial recognition-based attendance system for organizations.

- Automatic recognition of a person's face to implement a presence detection system in a company.
- Technology Used: Django, Bootstrap, HTML.

### •State Farm distracted driver detection

Implemented CNNs and transfer learning to detect distracted drivers.

- Distracted driver detection using convolutional neural networks and transfer learning.
- Technology Used : CNN, Tensorflow, Python.

## EXPERIENCE

### •Data Engineer

Confidential

02/2022 – Present

Rabat, Morocco

- Designed and optimized data pipelines for large-scale data processing.
- Ensured data integrity and scalability for analytics and machine learning workflows.

### •Data Scientist Internship

Freelance

02/2021 – 09/2021

Medical Laboratory, France

- Conducted data preprocessing and analysis for medical diagnostic datasets.
- Implemented machine learning models to identify trends in patient health data.
- Demonstrate the power of an unsupervised data analysis approach for data routinely collected from patients with coronary heart disease.
- Anticipate any need for chemistry to keep the patient stable.

## PUBLICATIONS

### •Evaluating the impact of filter-based feature selection in intrusion detection systems

International Journal of Information Security

2024

Q2, Impact Factor: 3.872

### •A Comparative Assessment of Wrappers and Filters for Detecting Cyber Intrusions

World Conference on Information Systems and Technologies

2024

### •Assessing the effectiveness of dimensionality reduction on the interpretability ....

Computers and Electrical Engineering

2024

Q1, Impact Factor: 4

### •Assessing the Effectiveness of Synthetic Data Generation for Multi-Class Cyber-Attacks ..

World Conference on Complex Systems (WCCS)

2024

## TECHNICAL SKILLS

- **CI/CD:** GIT, GitHub, GitLab, Jenkins
- **Ecosystem:** Hadoop, Spark, Kafka, Avro
- **Containerization/Orchestration:** Kubernetes, Docker, Ansible
- **NoSQL Databases:** Cassandra, BigTable
- **Search Tools:** ElasticSearch, Kafka Streams
- **Cloud Platforms:** GCP (BigQuery, GKE), AWS (WMR, ATHENA), Azure
- **DevOps:** AWS DevOps, Terradata
- **Other Tools:** Power BI, Tableau, Airflow, PySpark, SQL

## LANGUAGES

- English: Fluent
- French: Fluent
- Arabic: Native