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.

J +212-633-015615 ➤ Houssam.zouhri@um6p.ma GitHub Profile

in LinkedIn Profile

EDUCATION

•PhD in Cyber Attack Detection

02/2022 - Present

This work aims to enhance the performance of Intrusion Detection Systems by improving general- UM6P, Rabat, Morocco izability, efficiency, and interpretability. It addresses key challenges such as feature selection, class imbalance using Generative AI, and the application of interpretability techniques to ensure transparent and effective attack detection.

•Master: Data Science and Decision Support

09/2019 - 07/2021

UM6P, Benguerir, Morocco

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 02/2022 - Present ConfidentialRabat, 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

02/2021 - 09/2021

Medical Laboratory, France

FreelanceImplemented machine learning models to identify trends in patient health data.

- Anticipate any need for chemistry to keep the patient stable.

Publications

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

2024

International Journal of Information Security

Q2, Impact Factor: 3.872

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

2024

World Conference on Information Systems and Technologies

•Assessing the effectiveness of dimensionality reduction on the interpretability

2024

Computers and Electrical Engineering

Q1, Impact Factor: 4

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

2024

World Conference on Complex Systems (WCCS)

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