ISMAIL KARMOUT

Rabat, Morocco

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Professional Profile

Specialized in **Artificial Intelligence**, **Data Analysis**, and **Big Data**, I combine strong technical expertise with hands-on experience in a highly critical telecommunications environment. As an internal trainer at Maroc Telecom, I support teams in building skills in AI, Big Data, and Data Analysis. I am highly motivated to join advanced training programs and innovative projects to actively contribute to digital transformation and data-driven decision-making.

Career Objective

To join advanced training programs in Artificial Intelligence, Data Analysis, and Big Data in order to deepen my technical expertise and contribute to high-impact technological and societal projects.

Education

⋆ **Master's Degree in Artificial Intelligence and Data Analysis**
Moulay Ismaïl University – Meknès | 2022 – 2024
⋆ **Bachelor's Degree in Software Engineering**
Faculty of Sciences and Techniques of Errachidia | 2021 – 2022
⋆ **D.U.E.S.T. in Mathematics, Computer Science and Physics (MIP)**
Faculty of Sciences and Techniques of Errachidia | 2019 – 2021

Professional Experience

⋆ **Network Support & Data Analyst – Maroc Telecom**
National Transmission Support Center (CSNT) | May 2023 – Present
- Developed advanced data analysis tools for network supervision and performance optimization.
- Automated technical reports and decision dashboards (Python, Pandas, Power BI), significantly reducing reporting time.
- Proactively analyzed network alarms, improving service availability and reliability.

⋆ **Internal Trainer – Artificial Intelligence & Big Data**
Internal Academy – Maroc Telecom | October 2024 – Present
- Delivered training sessions in Artificial Intelligence and Big Data for employees.
- Designed educational materials and practical demonstrations in Data Analysis.
- Trained multiple technical teams in data exploitation for decision-making.

Artificial Intelligence & Data Science Projects

⋆ **Intelligent People Detection and Tracking System (Final Year Project)**
Developed a real-time system using **YOLOv9**, **DeepSORT**, and **CNNs** for people detection and re-identification. *Technologies: Python, OpenCV, TensorFlow, PyTorch.*

⋆ **Smart IoT-based Irrigation System**
Designed an automated irrigation system using soil moisture and temperature sensors (**DHT11**), **Arduino UNO**, and **ESP32**, enabling precision irrigation and reducing water waste. *Technologies: Arduino, ESP32, Python, HTML/CSS, IoT.*

⋆ **TransAlarms – Intelligent Network Alarm Analysis Platform**
Developed an automated analysis platform to optimize alarm processing and improve operational visibility. *Technologies: Python, Pandas, Plotly, SQL.*

⋆ **University Decision Support System**
Developed dashboards for academic management and student planning. *Technologies: Spring Boot, Angular, MySQL.*

Technical Skills

Artificial Intelligence & Machine Learning:
- Generative AI, CNNs, LLMs, TensorFlow, PyTorch, Scikit-Learn

Data Science & Data Analysis:
- Python, Pandas, NumPy, SQL, Power BI

Big Data & Data Engineering:
- Hadoop, Spark, Data Lakes, ETL, Large-scale data ingestion

Cloud & DevOps:
- AWS, Azure, Docker, Kubernetes, Git

Tools:
- Linux, GitHub, Jupyter, Advanced Excel

Soft Skills:
- Analytical rigor, technical communication, initiative, teamwork

Certifications

- Huawei OSN 9800 — **HUAWEI**
- Nokia 1830-PSS — **NOKIA**
- ASN Marine AB — **ALCATEL**
- ZTE OTN — **ZTE**
- GMPLS NFM-T — **NOKIA**
- Cybersecurity Essentials — **CISCO**

Languages

French: Professional proficiency
English: Technical proficiency
Arabic: Native language