



Othman Trigui

Data & AI engineer

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Profile

Data & AI Engineer combining technical expertise with a global vision of intelligent systems. Specialized in designing data pipelines and deploying machine learning models. Passionate about innovation and solving complex problems, I turn advances in Data and AI into concrete, high-performance, and practical solutions for everyday use.

Education

Engineer's degree - Data Engineering and Artificial Intelligence <i>National School of Applied Sciences</i>	2023 – 2025 Safi
Bachelor's degree - Infrastructure, Processing and Analysis of Big Data <i>Superior School of Technology</i>	2022 – 2023 Fquih Ben Saleh
Two-year post-secondary [DUT] - Computer Engineering <i>Superior School of Technology</i>	2020 – 2022 Fquih Ben Saleh

Professional experience

Systems & Data Engineer <i>Netopia solutions</i> <ul style="list-style-type: none">Installed and configured a SonarQube server to centralize code quality analysis.DPP Project (Dossier Patient Partagé):<ul style="list-style-type: none">Developed a Spark Structured Streaming pipeline from Kafka for near real-time ingestion and transformation of JSON data from FSE and hospital information systems, storing it in a structured format in HBase using Scala.Designed a Spark Structured Streaming pipeline that reads medical report file paths from Kafka, extracts their content from MinIO, and stores them in Ozone for distributed file management.Performed mapping and indexing of HBase tables in Phoenix to enable optimized SQL access and queries on the data.Implemented an automated NiFi flow to back up raw data from Kafka into a partitioned HDFS, ensuring traceability and storage resilience.FSE Project (Feuille de soins électronique): Linked the project's DevOps repositories to the SonarQube server and exposed the analysis results on a Grafana dashboard using a Python scraper and the SonarQube API.	09/2025 – Present Rabat, Morocco
Data & DevOps Engineer Intern <i>Netopia solutions</i> <ul style="list-style-type: none">Developed a Cyber Threat Intelligence platform implementing 360° monitoring with modules for brand surveillance, VIP identity protection, and image monitoring of companies and public figures, leveraging real-time data from social media, news, and the dark web.Built, deployed, and automated the solution through a complete DevOps pipeline (Azure Pipelines, Repos) with Redis queuing and browser automation.Collaborated within a Scrum team, contributing to architecture design, backend development, and CI/CD deployment in 2-week sprints.FSE Project (Feuille de soins électronique): Migrated an Oracle database from a Windows machine to a Linux VM, including environment setup, service configuration, and data transfer.	02/2025 – 08/2025 Rabat, Morocco
AI Engineer Intern <i>Netopia solutions</i> <ul style="list-style-type: none">Implemented and evaluated transcription and diarization models (Whisper, AssemblyAI, Pyannote) to accurately transcribe and distinguish between speakers in multilingual audio recordings.Utilized models like BART and GPT-3.5 for summarizing interview transcripts, optimizing the interview analysis process.Utilized GPT-3.5 to generate tailored interview questions and technical tests based on job descriptions and candidate profiles.	07/2024 – 09/2024 Rabat, Morocco
Data Scientist Intern <i>ONEE - BE</i> <ul style="list-style-type: none">Built machine learning models to classify, detect and extract desired information from national ID cards.Used Azure services (Blob Storage, ML Studio) to extract the data and to train the models.	04/2023 – 06/2023 Casablanca, Morocco

- Developed a web application using Flask to test the models.

Web Development Intern

Société Briqueterie Bati Chaouia (SBBC)

04/2022 – 06/2022
Berrechid, Morocco

- Redesigned and rebuilt the company's official website from scratch using PHP, HTML, CSS, JavaScript, and MySQL.
- Built admin panel allowing administrators to easily add, edit, and remove products directly on the website without technical knowledge.
- Designed the website to be fully responsive, secure, and optimized for a smooth user experience across devices.

Projects

Attendance and Mask Detection App with Location Tracking

Provided a comprehensive solution for managing student attendance, real-time mask detection, and location tracking.

- Developed a Streamlit app for student attendance and real-time mask detection using computer vision techniques.
- Implemented data visualization and automated email notifications for detailed attendance and mask usage reports.
- Integrated secure login functionality and location tracking to enhance monitoring and reporting accuracy.

Technologies: Python, Streamlit, OpenCV, TensorFlow, Firebase.

Obesity level prediction

Predict obesity level based on eating habits and physical condition using machine learning

- Mastered data preparation and model-ready datasets by tackling missing values and encoding categorical features.
- Built and optimized predictive models using diverse machine learning approaches and meticulous hyperparameter tuning.
- Developed a user-friendly Streamlit web app for intuitive input, robust predictions, and clear result visualization.

Technologies: Python, Matplotlib, Seaborn, GridSearchCV, XGBoost, Ensemble Learning, Streamlit.

Online Sales Data Analysis

Understand customer behavior and segment them into different groups using the LRFM model

- Extracted valuable insights from online sales data through meticulous data cleaning, aggregation, and visualization.
- Executed customer segmentation using the LRFM model, enabling targeted marketing strategies and personalized customer experiences.
- Demonstrated proficiency in Python data analysis tools to effectively process and visualize large datasets.

Technologies: Python, Pandas, NumPy, Matplotlib.

Zero Chômage

A Comprehensive Job Search Platform

- Designed and developed a full-stack job search platform, streamlining connections between recruiters and candidates.
- Implemented user functionalities for both recruiter and candidate profiles, enabling efficient job posting, application submission, and CV sharing.
- Enhanced the platform by integrating an AI-powered job recommendation system and CV parsing for candidates, improving job matching accuracy and application efficiency.

Technologies: PHP, Python, HTML5, CSS3, JavaScript, jQuery, MySQL, Flask, Scikit-learn, Pandas, NLTK.

Skills

PROGRAMMING LANGUAGES

Python, R, PL/SQL, JAVA, Scala

DATABASES & BIG DATA

Cassandra, MongoDB, Redis, Oracle, SQL Server, MySQL, Spark, Hadoop, Firebase, Kafka, PostgreSQL, HBase, Ozone, Phoenix, NiFi

MACHINE LEARNING & DATA SCIENCE

Scikit-Learn, TensorFlow, Keras, PyTorch, Numpy, Pandas, Matplotlib, Seaborn, Plotly, OpenCV, Prompt Engineering

WEB DEVELOPMENT & AUTOMATION

Flask, Streamlit, HTML, CSS, JavaScript, Selenium, BeautifulSoup

CLOUD

Azure, Cloudera, AWS, GCP

DEVOPS & CI/CD

Docker, Git, GitHub, Cloudflare, Nginx, Azure Pipelines

Certificates

- Microsoft Certified: Azure Data Scientist Associate
- Machine Learning Specialization - DeepLearning.AI
- Advanced Computer Vision - DeepLearning.AI
- Python for Data Science, AI & Development - IBM

Languages

English

Full professional proficiency

French

B2 (TCF certified)

Arabic

Native