



AI DEVELOPER | DATA SCIENTIST

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📍 Morocco

## TECHNOLOGIES

- **AI, ML, DL, NLP:** PyTorch, Hugging Face Transformers, Scikit-learn, TensorFlow
- **Databases:** pgSQL, SQLite, MongoDB
- **Programming:** Python (Django, FastAPI, Flask), R, Java, Javascript, Typescript
- **Data visualisation :** PowerBi, Gephi
- **Project management :** Microsoft project, Trello
- **Cloud Computing:** AWS, GCP, MinIO
- Spark, Oracle, Kubernetes, Talend

## CERTIFICATES

- **Supervised Machine Learning: Regression and Classification (Coursera)**
- **Advanced Learning Algorithms (Coursera)**

## SOFT-SKILLS

- Team spirit
- Adaptation
- Organization

## INTERESTS

- Traveling
- Photography
- Music
- Surf

## LANGUAGES

- English : Advanced
- French : Bilingual
- Arabic : Mother tongue

## EDUCATION

- **2022-2023:** Data science, Aalto University, Espoo, Finland
- **2018-2023:** Computer engineering, Big Data & AI, Salé, International University of Rabat

## PROFESSIONAL EXPERIENCES

**December 2023-Present:** Python developer, Epineon, Casablanca, Morocco

**Subject:** Upskilling and networking application

- Web scraping of news and knowledge graph-based scoring using entities and relations extracted from article's content.
- Generated personalized content using LLMs (summaries, TTS, podcasts, quizzes).
- Developed a user clustering system by generating semantic embeddings of users' objectives using SentenceTransformers and applying hierarchical clustering with Ward's method.
- Designed a custom threshold selection to form optimal clusters, enabling grouping of users with similar interests for personalized discussions and debate sessions.
- Use of a hybrid method to manage running tasks in parallel using ThreadPoolExecutor and ProcessPoolExecutor.
- Created APIs to manage users, content display, messaging, video recordings, and automatic recap generation using FastAPI.
- Collected, cleaned, and pre-processed data, storing pipelines in MinIO and MongoDB.

**Subject:** Text-to-video platform creation

- Data collection, data cleaning, pre-processing and storing in s3 bucket
  - Created a pipeline to automatically generate videos from a given text using NLTK, Spacy and entity recognition from images and videos.
  - Developed a Text to video platform
- Technologies :** Nltk, Spacy, Moviepy, Flask, Python, TypeScript, AWS, FastAPI, MongoDB, MinIO, Ollama, VLLM, SearXNG, BackgroundScheduler

**November 2022- December 2023:** Data scientist, CRAI-CIS, Espoo, Finland

**Subject:** Data-driven analysis of covid-19 related Misinformation in Finland

- Data collection, data cleaning and pre-processing
  - Classification of false information about covid-19
  - Detection and classification of malicious bot accounts
  - Detection and visualization of communities responsible for the spread of misinformation.
- Technologies :** Finbert, Botometer, Networkx, Leidenalg

**July-September 2022:** Data Scientist (intern), CDG prévoyance, Rabat, Morocco

**Subject:** Chatbot creation

- Data exploration, understanding, cleaning and preprocessing
  - Construction of the NLP model for text analysis and prediction
- Technologies:** Python, Streamlit

**July-August 2021:** Web Developer (intern), LERMA lab, Rabat, Morocco

**Subject:** Website creation to manage company's project

**Technologies:** JEE, HTML, SQL