

EDUCATION

Higher Institute of Information and Communication Technologies, Borj Cedria

- Master's Degree in Data Science, specializing in Data Science and Smart Services 2020 | 2022
- Bachelor's Degree in Computer Science and Communication 2017 | 2020

SKILLS

Programming Languages: Python, R, Java, Matlab, C, C++, C#

Frameworks & Libraries:

TensorFlow, PyTorch, Keras, Hugging Face, Transformers, Scikit-Learn, XGBoost., vLLM, LangChain, LangGraph, LlamaIndex, Ollama, NumPy, Pandas, Matplotlib, Seaborn, Plotly, OpenCV, YOLO (You Only Look Once), SpaCy, NLTK, TextBlob, Gensim, Kafka, FastAPI, Flask, NetworkX,PyG

Databases: Elasticsearch, Neo4j, MongoDB, PostgreSQL, Firebase Web Development: HTML, CSS, Flask, FastAPI, Angular, Nodejs Cloud & Tools: AWS, OVH, Git Data Science & AI: LLMs, GNNs, NLP Operating Systems: Linux, Windows Methodologies: Agile, Scrum

CERTIFICATIONS

- Al Analyst IBM

- Big data engineer award IBM

- Data structure Udemy

- Machine learning Le Wagon Dubaï

- Machine learning Kaggle

- **Python mega course** Udemy

SOCIAL ACTIVITIES

Istic Maker Labs 2018-2021 Google developers club 2021-2022

LANGUAGES

Arabic, French, English

Elbahri Chayma









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chayma-elbahri

chaymabh

PROFESSIONAL EXPERIENCE

Data Scientist | iTransform365

01/2024 | present

- Fine-tuned LLMs with TensorFlow and PvTorch for specific projects.
- Designed and implemented graph-augmented retrieval systems combining LLMs with GNNs and knowledge graphs.
- Developed and deployed predictive models with TensorFlow and PyTorch on large-scale data in multiple formats (JSON, CSV, etc.).
- Utilized GPUs within AWS and OVH cloud platforms, accelerating training and inference by 25%.
- Integrated Elasticsearch, enhancing data retrieval efficiency by 50%.
- Leveraged LangChain, LangGraph, and LLMs to build sophisticated AI agents capable of executing complex tasks autonomously.
- Built and deployed machine learning models as APIs using Flask and FastAPI, enabling real-time predictions and seamless integration into web applications.

Artificial intelligence engineer | NARD Intelligence

10/2022 | 11/2023

05/2022 | 6/2023

- Leveraged Python, TensorFlow, PyTorch, and GNNs to design, implement, and optimize AI models tailored to project requirements.
- Applied advanced web scraping techniques using tools like BeautifulSoup.
- Worked closely with engineering and data science teams to integrate Al-driven solutions into JavaScript and Angular frameworks.
- Built and deployed machine learning models as APIs using Flask and FastAPI, ensuring real-time predictions and seamless web application integration.

Machine Learning Researcher (Master's Thesis) | ISTIC Borj-cedria

- Researched and developed advanced methods for data preprocessing and feature extraction, optimizing model input data.
- Investigated anomaly detection algorithms and implemented anomaly classification models, successfully identifying outliers and improving model robustness.
- Utilized graph neural networks (GNNs) for enhanced anomaly detection, improving model accuracy and uncovering complex patterns in data.

Machine Learning intern | Meducol

03/2022 | 06/202

- Developed and implemented NLP models for extracting insights from medical data.
- Designed and deployed web scraping solutions to collect medical data from various sources.
- Applied data preprocessing techniques to clean and transform raw data into usable formats.
- Developed interactive dashboards and visualizations for data analysis.

Machine learning intern | The Sparks Foundation

03/2022 | 04/2022

- Developed and optimized machine learning algorithms for image processing and computer vision tasks.
- Implemented data preprocessing techniques to handle noise, outliers, and missing values.

Computer vision and IOT intern Aroteg

02/2020 | 06/2020

- Designed and implemented data collection and preprocessing pipelines for IoT devices
- Developed algorithms for intelligent data filtering and feature extraction.
- Integrated real-time data streaming from IoT devices into a database for analysis.