Chaimaâ OURGANI

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PROFESSIONAL EXPERIENCE

Sept 2024 Present

Data Scientist, Attijariwafa Bank, Casablanca

- > Designed solutions based on LLM fine-tuning for text classification (user experience, complaints) and speech transcription (Speech-to-Text), enabling automatic extraction of relevant insights from client conversations using LoRA, Hugging Face, PyTorch, Librosa, Scipy, SpaCy, Scikit-learn.
- > Automated recurring internal processes and improved operational efficiency by developing solutions based on generative AI and RAG architecture (chatbots, smart APIs), leveraging LangChain, FAISS, Ollama, OpenAI, Hugging Face, Boto3, FastAPI.
- > Designed and implemented an OCR-based automated extraction system, reducing financial data entry time by 10 to 15%, and deployed using LangChain and FastAPI for optimal integration.
- > Designed and developed a data stream reconciliation workflow for enriching and qualifying client information, based on fuzzy matching and text vectorization techniques, using PySpark, Scikit-learn, and Scipy.
- > Developed and optimized large-scale data ingestion and processing pipelines and workflows with PySpark, Scala, Hive, and Oozie, achieving 70% reduction in execution time.

LangChain Hugging Face	Boto3	FAISS	Scikit-learn	FastAPI	PyTorch	TensorFlow	Seaborn	Plotly	Scipy
Spacy Python Scala									

• **DevOps & Cloud :** Scalable deployment with containerization, orchestration, CI/CD, and log/metrics monitoring. **Technologies :** Docker, GitLab CI/CD, Jenkins, Keycloak, Dynatrace, OpenTelemetry, Kubernetes, OpenShift.

EDUCATION

09/2021-07/2024 State Engineer Degree in Data Science and IoT – National School of Computer Science and Systems Analysis (ENSIAS), Rabat, Morocco

• Main Courses: Machine Learning, Deep Learning, Big Data, NLP, Computer Vision, Web Mining, Data Mining, IoT, DevOps & Cloud, Advanced Statistics, Data Structures, Software Project Management.

09/2019-07/2021 Preparatory Classes for Engineering Schools (CPGE) – Lycée d'Excellence, Ben Guerir, Morocco

• Main Courses: Advanced Mathematics, Algorithms, Programming (Python, SQL), Probability and Statistics.

09/2018-07/2019 International Scientific Baccalaureate – Mathematical Sciences A, French Option – Lycée El Baroudi, Casablanca, Morocco.

PROJECTS

DERMAID: AI COPILOT FOR SKIN CANCER DETECTION

10/2023 - 01/2024

Al assistant for early diagnosis of skin cancer, combining deep learning for medical image analysis and NLP for user interaction.

PyTorch ResNeXt50 OpenCV Dialogflow Python

ATTENDAI: FACIAL RECOGNITION ATTENDANCE SYSTEM

03/2025

github.com/Chaimaaorg/AttendAl

Real-time facial recognition system for automated attendance management with accurate face detection.

Python OpenCV KNN

SUMMARIZEBOT: AUTOMATIC SUMMARIZATION AI AGENT

03/2025

github.com/Chaimaaorg/SummarizeBot

Conversational agent generating dynamic summaries using LLM models and a FastAPI interface.

FastAPI Langchain Hugging Face Ollama

PLANTSCAN: PLANT DISEASE DETECTION VIA VISION

10/2023

github.com/Chaimaaorg/PlantScan

Notebook

Plant disease classification through fine-tuned MobileNet, integrated into an interactive web application.

TensorFlow MobileNet FastAPI React.js Python

REAL ESTATE PRICE PREDICTION PLATFORM

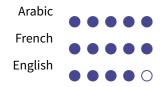
07/2023

Predictive modeling of real estate prices with over 90% accuracy using an optimized preprocessing and modeling pipeline.

Scikit-learn Flask Pandas Python







- > Python for Data Science and Machine Learning Bootcamp Udemy 🗗 View Certificate
- ➤ Complete Tensorflow 2 and Keras Deep Learning Bootcamp — Udemy View Certificate
- ➤ LLM Fine-Tuning Fundamentals & GPT Model Fine-Tuning — Udemy View Certificate
- > Vector Databases Fundamentals (FAISS, Pinecone, Chroma) Udemy 🗹 View Certificate