CHEGDATI CHOUAIB

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PROFESSIONAL SUMMARY

AI & Data Science Engineer (Final Year, ENSAM Meknès).
Expert in Generative AI (LLMs, RAG, Fine-tuning), Machine and Deep Learning, Computer Vision. Proficient in Multimodal AI (OCR, ASR) and developing Autonomous Agents for ambitious projects. Skilled in MLOps and Cloud Integration (FastAPI, Docker) for developing high-impact SaaS platforms (MakerKit). Seeking a 4–6 month PFE Internship (Feb 2026) to deploy innovative, scalable AI solutions across various sectors.

PROFESSIONAL EXPERIENCE

Hack-Nation Global AI Hackathon (SAP Challenge) — November 2025
- 2nd Place: Developed SkillSense, an AI app that turns static résumés into dynamic career plans by extracting skills, identifying gaps, and generating personalized learning paths.

XAI-TECH — August 2025 – October 2025
- Explored chatbot and translation models between French, Arabic, and Darija.
- Conducted initial research and data collection for future development.

Smart Automation Technologies — July 2025 – September 2025
- Automated an end-to-end object detection pipeline using YOLO and Grounding DINO with local execution to ensure privacy and low latency.
- Structured preprocessing, inference, postprocessing, and logging; improved multi-scene robustness and maintainability.

INTELLCAP SARL — July 2025 – September 2025
- Created and deployed three microservices for multimedia text processing (video, image, and audio).
- Integrated advanced features for multimedia conversion and generation.

SaiKet Systems — April 2025 – May 2025
- Performed customer churn analysis using multiple models (logistic regression, Random Forest, etc.).
- Built a complete pipeline including data visualization, cleaning, feature selection, and comparative evaluation.
- Delivered actionable business insights and recommendations from exploratory analysis.

PROJECTS

Multimodal Chatbot (Text • Voice • Image) — May 2025 – June 2025
- Intelligent assistant integrating OCR, ASR, and RAG for industrial document analysis, supporting French, Arabic, and English, with TTS-based voice responses powered by Vision-Language Models and LLMs.

Recommendation Using PSO (Particle Swarm Optimization) — MovieLens 100K — April 2025 – May 2025
- Personalized web service based on user preferences; optimization with Particle Swarm Optimization; offline evaluation.

Object Detection (TensorFlow/Keras) — March 2025 - April 2025
- Dual-output CNN for emoji classification and localization: model architecture, training, and evaluation metrics.

Parking Vision: Spot Detection and Reservation — October 2024 – January 2025
- YOLOv8 + SVM for occupancy status detection; Streamlit UI; fully documented on GitHub/ReadTheDocs; near real-time performance.

EDUCATION

National School of Arts and Crafts – Meknès-Engineering Program
- Engineering Cycle in Industrial Engineering, AI & Data Science — **In progress**

National School of Arts and Crafts – Meknès
- Preparatory Classes (Integrated)

Othman Ibn Affan High School
- Baccalaureate in Mathematical Sciences A

COMPÉTENCES

- Data Science & AI : Machine Learning & Deep Learning (Predictive Modeling, Anomalies),Generative AI : LLMs, RAG (Retrieval-Augmented Generation), Fine-tuning,Computer Vision : Image Processing for Innovative Projects,Frameworks : PyTorch, TensorFlow, Keras, Scikit-learn,Streamlit , Vibe coding
- Data Engineering & MLOps : Building Analytical Pipelines(Data Cleaning, Feature Engineering),Deployment : Docker, FastAPI (Building APIs for Model Serving),DevOps : Git, GitHub
- langues & tools:Python,Microsoft Power Apps , Développement SaaS (MakerKit)

CERTIFICATIONS

- Lean Six Sigma Yellow Belt — ECLEE
- Supervised Machine Learning: Regression & Classification (Python, NumPy, scikit-learn)
- Unsupervised, Recommenders, Reinforcement Learning (k-means, dimensionality reduction, anomaly detection, recommender systems, DRL)
- Generative AI for Data Scientists (IBM): Fundamentals, Prompt Engineering, Practical Cases
- IBM Generative AI: Prompt Engineering Basics
- Data Science Job Simulation: Business understanding, EDA, feature engineering, insights, and recommendations
- Docker for the Absolute Beginner – Hands-On (Packt, Coursera): containerization fundamentals, Docker Compose, Swarm, and Kubernetes basics

INTERESTS

- Automation, Competitive Challenges, Football, Video Games, Travel, and Cultural Exploration.