



# CHEGDATI CHOUAIB

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## PROFESSIONAL SUMMARY

I am an AI & Data Science engineer specializing in Machine and Deep Learning, Computer Vision, Generative AI, AI chatbots, automation, SaaS solutions, and web development. I have worked with clients to deliver production-ready AI solutions for real-world problems and am passionate about creating intelligent, scalable, and practical AI applications as a freelance developer

## PROFESSIONAL EXPERIENCE

### Capgemini Techathon

November 2025 - Decembre 2025

- Created a real-time multimodal student stress detection app using video, audio, and text ; qualified for the final.

### 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

- Trained multiple models for customer churn prediction with a full data pipeline (cleaning, visualization, feature selection), achieving **80% accuracy** with Random Forest and delivering actionable business insights.

## PROJECTS

### Multimodal Chatbot (Text • Voice • Image)

In progress

- 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 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

### École Nationale Supérieure d'Arts et Métiers – Meknès-Engineering Program

In progress

- Engineering Cycle in Industrial Engineering, AI & Data Science

### Othmane Ben Aafane

2020

- International Baccalaureate, Mathematical Sciences A – Good

## Skills

- Low-Code & Automation:** Power Apps, Power Automate, workflow automation
- Generative AI & NLP :** LLMs, RAG, Fine-tuning, NLP, OCR, ASR, Prompt Engineering, AI APIs .
- Machine Learning & Deep Learning:** RNN, LSTM, CNN — Model training, evaluation & optimization .
- Computer Vision:** Image Processing, Object Detection (YOLO, Roboflow..)
- MLOps & Data Engineering:** Data cleaning ,feature engineering, Pandas , TensorFlow/Keras, Scikit-Learn..
- Backend & Deployment:** Docker, FastAPI
- Programming & Tools:** Python, Git/GitHub, Hugging Face, Streamlit,SaaS development .

## CERTIFICATIONS

- Lean Six Sigma Yellow Belt — **ECLEE**
- Supervised Machine Learning (**Stanford**): Regression & Classification (Python, NumPy, scikit-learn)
- Unsupervised & Recommender Systems (**Stanford**): 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 (**BCGX**):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.