

# Youssef CHLIH

## AI Specialist Technician and Data Engineering

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### PROFILE

Specialized Technician in Artificial Intelligence and Data Engineering with comprehensive training completed through a 4-month internship program. Expert in Machine Learning, Deep Learning, and Natural Language Processing with hands-on experience in Python, Java, computer vision (OpenCV, YOLOv8), GANs, UML, databases, and web development. Actively seeking opportunities as an AI Specialist Technician and Data Engineer. Trilingual professional (Arabic, French, English) with strong problem-solving abilities and collaborative teamwork skills.

### EXPERIENCES

#### 3d Smart Factory, AI Developer Intern

02/2025 – 06/2025 | Mohammedia

- Developed a comprehensive 3D object classification system using advanced machine learning techniques
- Implemented DGCNN (Dynamic Graph Convolutional Neural Network) model with ModelNet10 dataset for accurate 3D shape recognition
- Created an interactive Streamlit application interface for real-time 3D object classification with user-friendly visualization

#### HardTech Maroc, AI Development Intern - IT Fault Detection System

08/2024 – 09/2024 | Casablanca

- Designed and implemented an automated IT fault detection system utilizing Machine Learning algorithms
- Conducted comprehensive data analysis and preprocessing to optimize model performance and accuracy
- Developed predictive models to anticipate system failures and improve overall IT infrastructure reliability

### PROJECTS

#### Web Scraper Application, Personal Project

05/2025

- Frontend Development: Created responsive web interface using React and Material-UI with multi-page pagination and data export capabilities (CSV, JSON, Excel, TXT formats)
- Backend Development: Built REST API using FastAPI with WebSocket integration for real-time status communication
- Automation: Integrated Selenium for client-side JavaScript execution and implemented automatic HTML parser for web data extraction

#### HireGenius - AI-Based Intelligent Recruitment System, Final Project

04/2025

- NLP Implementation: Developed comprehensive CV analysis system using Natural Language Processing to rank candidates based on relevance and qualifications
- Computer Vision: Implemented YOLOv8 algorithms for facial expression analysis during interview processes
- Voice Analysis: Designed CNN-BiLSTM voice analysis system to evaluate candidate emotions during interviews
- Full-Stack Development: Created end-to-end recruitment platform with advanced AI capabilities

#### Automated IT Fault Detection System Using Machine Learning

08/2024 – 09/2024

- System Reliability: Enhanced IT system reliability and performance through AI-driven fault detection techniques
- Predictive Analytics: Implemented predictive models to anticipate system failures and reduce downtime
- Performance Optimization: Developed algorithms to improve overall system maintenance and monitoring

#### Realistic Image Generation with Convolutional Neural Networks and GANs

2024

- Synthetic Media: Explored creation of synthetic faces and AI-powered image enhancement techniques
- GAN Architecture: Utilized Generative Adversarial Network architectures to generate photorealistic images
- Research & Development: Conducted experimental research in computer vision and generative AI applications

EDUCATION

EST Nador, Diploma of University Technology (DUT) in Artificial Intelligence and Data Engineering	2023 – 2025
Lycée Moulay Rachid, Baccalaureate in Science-Mathematics A (BIOF)	2022 – 2023

SKILLS

<b>Programming Languages</b> Python, Java, JavaScript, PHP, Scala	<b>IA &amp; Machine Learning:</b> Machine Learning, Deep Learning, NLP, GANs, Predictive Models, LLMs, RAG
<b>Computer Vision</b> OpenCV, 3d CNN, YOLOv8, Pillow	<b>Database Management</b> SQL, NoSQL (Mongodb, Redis, Cassandra, Neo4j), PostgreSQL
<b>DevOps &amp; Infrastructure</b> CI/CD (Jenkins, GitLab CI), Infrastructure as Code (Terraform, CloudFormation), Docker, Kubernetes	<b>Web Technologies</b> HTML, CSS, React, FastAPI, REST APIs

CERTIFICATES

<b>Oracle Certified Foundations Associate: Oracle Cloud Infrastructure 2024</b> <ul style="list-style-type: none"><li>Cloud Computing</li><li>Oracle Cloud</li></ul>	<b>Oracle Cloud Infrastructure 2025 Generative AI Professional</b> Generative AI	<b>Python Programmer Bootcamp</b> 365 Data Science
<b>The Machine Learning Process A-Z</b> 365 Data Science	<b>Intro to Data Science</b> Cisco Academy	<b>Machine Learning Engineering for Production (MLOps) Level 2</b> Coursera

LANGUAGES

Arabic	English
French	