

# CHIHEB NOURI

AI Engineer — Computer Vision Specialist — Deep Learning Developer

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## SUMMARY

Artificial Intelligence Engineer with 1+ years of applied experience in computer vision, deep learning, and machine learning. Specialized in object detection (YOLO), model quantization, and performance tuning. Built scalable AI pipelines and edge-deployable solutions with 15% accuracy and 30% speed improvements. Delivered 98% accurate facial recognition, real-time behavior analysis, and automated retail vision systems. Proficient in Python, PyTorch, TensorFlow, OpenCV, and deployment tools. Featured at HANNOVER MESSE 2025 and Seamless Saudi Arabia 2024.

## EXPERIENCE

<b>AI Developer and Team Leader</b> <i>Inveep</i>	<b>Jan 2024 – Present</b> <i>Tunis, Tunisia</i>
<ul style="list-style-type: none"><li>Engineered facial recognition system integrated with chatbot for smart attendance; achieved 98% accuracy.</li><li>Deployed behavior detection model with automated alerts and visual logs; reduced incident response time by 20%.</li><li>Built and scaled a shoplifting detection system installed in 50+ retail stores, boosting operational safety.</li><li>Represented Inveep at HANNOVER MESSE 2025 and Seamless Saudi Arabia 2025, securing two partnership deals.</li></ul>	
<b>Computer Vision Engineer</b> <i>NN Code</i>	<b>Jan 2025 – Apr 2025</b> <i>Remote / Dubai, UAE</i>
<ul style="list-style-type: none"><li>Designed and deployed a high-throughput, multi-camera AI surveillance system leveraging YOLOv8, FastAPI, and multithreading for real-time object detection.</li><li>Integrated YOLOv8 object detection with face and pose estimation via <code>rtmlib</code>, achieving 95% precision in firearm detection across varied environmental scenarios.</li><li>Implemented streamlined workflows for RFDetr, RT-DETR, and D-FINE within Jupyter, resulting in the processing of 10,000+ training iterations weekly and enhancing overall model accuracy through rapid feedback loops.</li></ul>	

## PROJECTS

<b>AI-Powered HR Platform for Actia (Academic)</b>	<b>Feb 2025 – May 2025</b>
<ul style="list-style-type: none"><li>Built AI HR platform reducing screening time by 40% across 300+ applicants using ML models.</li><li>Enabled real-time avatars with 92% emotion accuracy using facial and voice inputs, under 150ms latency.</li><li>Added phone checks and screenshots, catching 94% of cheating attempts.</li></ul>	
<b>Retail Product Detection System (Capstone)</b>	<b>Feb 2024 – May 2024</b>
<ul style="list-style-type: none"><li>Developed Angular-based interface connected to YOLO with TensorRT optimization; achieved 30% faster inference.</li><li>Linked PostgreSQL backend to Mistral chatbot for inventory queries; reduced manual lookup errors by 25%.</li><li>Presented to 20+ enterprise stakeholders at Seamless Saudi Arabia 2024, resulting in 3 follow-up investor meetings and 1 signed pilot agreement.</li></ul>	

## TECHNICAL SKILLS

<b>Languages:</b> Python, Java, C/C++, JavaScript, TypeScript, Mojo, PHP
<b>Frameworks &amp; Libraries:</b> PyTorch, TensorFlow, YOLOv8, OpenCV, TensorRT, LSTM
<b>AI Skills:</b> Object Detection, Deep Learning, Model Optimization, Neural Networks, Real-Time Inference, Machine Learning
<b>Web Technologies:</b> Angular, Flask, Django, Node.js
<b>Tools:</b> Git, Docker, PostgreSQL, Linux

## EDUCATION

<b>Esprit School of Engineering</b>	<b>2024 – 2027</b>
<i>Artificial Intelligence Engineering</i>	<i>Tunis, Tunisia</i>
<b>Faculty of Sciences of Tunis</b>	<b>2021 – 2024</b>
<i>Bachelor's in Software Engineering</i>	<i>Tunis, Tunisia</i>

## CERTIFICATIONS

<b>Generative AI with Diffusion Models</b> — NVIDIA (Feb 2025)
<b>Fundamentals of Deep Learning</b> — NVIDIA (Dec 2024)
<b>YOLOv8 Performance Improvement Masterclass</b> — Udemy (Jul 2024)
<b>Azure AI Fundamentals</b> — Microsoft (May 2024)
<b>Azure Data Fundamentals</b> — Microsoft (May 2024)