

Nour Benzahra

Software Engineer | AI & Computer Vision automation Specialist
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Professional Summary

I'm a computer science student with a passion for building smart, interactive systems. I've independently developed projects like a sign language translator, emotion detector, air-drawing app, and a full virtual assistant with face and body analysis combining AI, computer vision, and automation. My strengths include Python, TensorFlow, OpenCV, and Linux. I enjoy solving real-world problems through hands-on development, with a focus on speed, reliability, and usability.

Projects

- Developed a full AI-powered assistant (Jarvis) with visual input, speech, face & body profiling
- Built a Sign Language Translator using MediaPipe and TensorFlow
- Emotion Detection System using Facial Analysis with CV2 & Keras
- Hand Tracking & Air Drawing using OpenCV + MediaPipe
- Facial Recognition Attendance System
- Object Detection & Real-Time Profiling Tools
- Linux Automation Scripts: File Organizer, System Monitor, Keylogger Detector
- Developed Custom API Tools (Weather, News, Face Analysis)
- Smart Home Simulation with Voice Control (Python)
- Camera Motion Detection Alarm using OpenCV
- QR Code Generator & Scanner using Tkinter
- CLI-Based Password Manager with Encryption
- Python Web Scraper & Auto Report Generator
- Built and deployed full-stack projects with Docker

Core Skills

- Python Automation & Bash Scripting
- TensorFlow & Keras Model Training
- Real-Time Computer Vision (OpenCV, MediaPipe)
- AI Assistant Development
- Sign Language Recognition Systems
- Facial & Emotion Recognition AI
- Cybersecurity Scripting (Kali Linux, Scapy)
- Dockerized Web Application Deployment
- REST API Integration & Automation
- Linux DevOps (Ubuntu, Kali)
- Full Stack Development (Flask, PHP, MySQL, JS)
- OCR, QR, Object Detection Applications
- Agile Methodologies, Git & CI/CD
- Ethical AI, AI Privacy, and Applied Machine Learning

Education

Bachelor of Computer Science
University of the West of England, 2023 - 2025

Languages

English, Arabic, French