ADIL ALAMI

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SKILLS

- **Programming:** Python, C#, C
- **AI/ML:** TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, OpenCV
- **Platforms & Data:** FastAPI, Django, AWS (S3, DynamoDB), OVH, MQTT, RabbitMQ, PostgreSQL, MongoDB, Cassandra, Spark, Kafka, Docker, Git, DVC, MLflow

EXPERIENCE

- **Voicari** *May 2025 – Present*
Freelance Data Scientist Berlin, Germany (Remote)
  ◦ Built the core AI system and models, focusing on real-time emotion recognition from acoustic and physiological signals.
  ◦ Designed a distributed Big Data architecture: ingested IoT sensor data via **MQTT**, buffered high-throughput streams using **Kafka**, and managed asynchronous inference tasks with **RabbitMQ**.
  ◦ Deployed scalable backends with **Docker** on **AWS (S3, DynamoDB)** and **OVH**, ensuring reliable audio storage and real-time device state synchronization.
  ◦ Developed internal analytics dashboards and tools to visualize model performance and monitor system metrics.

- **Faculty of Sciences Agadir – Ibn Zohr University** *Mar 2025 – Jul 2025*
AI Engineer — PFE Internship Agadir, Morocco
  ◦ Built **OpenFirmaAI**: A smart greenhouse management platform (FastAPI backend, Next.js frontend).
  ◦ Developed deep learning models to predict water and fertigation needs for tomato crops, optimizing yield and resource usage.
  ◦ Integrated an LLM-based expert agent to interpret model predictions, providing farmers with human-readable context and agronomic recommendations.

- **WeHelp Group** *Apr 2023 – Oct 2023*
Data Scientist — Intern Meknes, Morocco
  ◦ Led **AEye**: An assistive navigation system for the visually impaired using YOLO object detection and DeepSort tracking.
  ◦ Developed **PlantAI**: An end-to-end plant disease recognition application using EfficientNet and Django.

- **ITRAV Engineering** *Oct 2022 – Mar 2023*
Freelance Web Developer Fez, Morocco
  ◦ Delivered responsive corporate websites using HTML5, CSS3, and JavaScript, ensuring cross-browser compatibility.

EDUCATION

- **Ibn Zohr University** *Oct 2023 – Jul 2025*
Master's in Big Data and Artificial Intelligence — Valedictorian Taroudant, Morocco
  ◦ Focus: Deep Learning, Data Engineering, Distributed Systems.

- **Higher School of Technology** *Oct 2022 – Jun 2023*
B.A.S. in AI and Data Science — Valedictorian Meknes, Morocco
  ◦ Focus: Machine Learning, Data Analysis, Software Engineering.

- **Higher School of Technology** *Oct 2019 – Jun 2021*
Associate Degree in Audiovisual Technologies — Distinction Meknes, Morocco
  ◦ Focus: Audio/Visual Systems, Digital Imaging.

PROJECTS & PUBLICATIONS

• **SavePip — Smart Dependency Management Tool** *Present*
Python, CLI, PyPI, Conda [O]
◦ Developed an open-source CLI tool to intelligently install and track packages, preventing `requirements.txt` bloat.
◦ Features include smart synchronization, category management (dev/prod), and support for both pip and conda.
◦ Published on PyPI; simplifies environment management by separating explicit dependencies from sub-dependencies.

• **OpenFirmaAI — Agricultural Management System (PFE)** *Jul 2025*
FastAPI, Python, Next.js, Seq2Seq, Mistral LLM [O]
◦ Greenhouse monitoring and predictive analytics system for tomato cultivation with LLM-based interpretability.

• **OpenVote — Decentralized Voting System** *Apr 2025*
Solidity, Ethereum, Smart Contracts, Next.js [O]
◦ Full-stack dApp featuring secure, audited smart contracts and a modern user interface.

• **Hespress Sentiment Analysis — Moroccan Darija (ICAMAI'25)** *Feb 2025*
Kafka, Spark, PostgreSQL, Cassandra, BiLSTM [O]
◦ End-to-end Big Data pipeline for sentiment analysis; presented at **ICAMAI 2025** (attestation available).

• **Tomato Sorting Line — Ripeness & Size** *Feb 2025*
Python, OpenCV, CNN [O]
◦ CNN-based computer vision model for automated grading on industrial production lines.

• **EAR Fatigue Detection — Real-time Drowsiness Monitoring** *Feb 2024*
Python, OpenCV, Dlib [O]
◦ Developed a computer vision system to detect student fatigue using Eye Aspect Ratio (EAR) and facial landmarks.
◦ Implemented real-time monitoring and alerting mechanisms to enhance safety and learning quality.

ADDITIONAL INFORMATION

Languages: Arabic (Native), English (Proficient), French (Intermediate)
Interests: Coding, Chess, Video Games