

# Abdeljalil Ounaceur

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## SUMMARY

Data Science graduate student with hands-on experience building production AI systems. Developed and deployed AI image generation service using FastAPI, Celery, and Stable Diffusion models in Docker containers. Proficient in Python, backend API development, and working with generative AI models (Transformers, Diffusers). Strong foundation in algorithms and data structures with experience in async task processing, monitoring systems, and database-driven applications.

## EDUCATION

### Université Ibn Zohr

*Master of Science (MS), Data Science*

Agadir, Morocco

Sep 2023 — Jul 2025

- Cumulative GPA: 15.38/20
- Key Skills: Research Skills, Data Analysis

### Université Ibn Zohr

*Bachelor of Science (BS), Computer Science*

Agadir, Morocco

Sep 2020 — Jun 2023

- Cumulative GPA: 15.34/20
- Key Skills: Algorithms, Python, Java, Data Structures, Object-Oriented Programming

## WORK EXPERIENCE

### AI Backend Engineer Intern

Feb 2025 — Jul 2025

Richdale AI

Agadir, Souss-Massa, Morocco

- Built FastAPI-based AI image generation service with Celery for asynchronous task processing and distributed job queue management
- Integrated Stable Diffusion models with Transformers and Diffusers libraries for text-to-image and image-to-image generation workflows
- Deployed production system using Docker containers with load balancing and request routing infrastructure
- Implemented monitoring and observability stack to track system performance and resource utilization
- Contributed to [lartist.fr](https://lartist.fr) - an AI platform for transforming text and sketches into artwork using generative models
- Technologies: Python, FastAPI, Celery, Stable Diffusion, Transformers, Diffusers, Docker, Prometheus, Grafana, Cloud Storage

## PROJECTS

**Product AI Image Similarity Platform** ([github.com/Abdeljalil-Ounaceur/Product-AI-Image-Similarity-Platform](https://github.com/Abdeljalil-Ounaceur/Product-AI-Image-Similarity-Platform)) Oct 2025 — Nov 2025

- Production-grade microservices-based visual search engine powered by OpenAI CLIP and vector similarity search
- Built with 5 containerized services (React frontend, FastAPI backend, BentoML ML service, MinIO object storage, Oracle database)
- Implemented semantic image embeddings using CLIP model for zero-shot visual understanding and vector similarity search with cosine similarity
- Deployed on Kubernetes with horizontal scaling capabilities
- Technologies: React, FastAPI, Python, BentoML, OpenAI CLIP, Oracle Database, MinIO, Docker, Docker Compose, Kubernetes, gRPC, S3 API

**Real-Time Face Recognition and Surveillance System** ([github.com/Abdeljalil-Ounaceur/Real-Time-Face-Recognition-and-Surveillance-System](https://github.com/Abdeljalil-Ounaceur/Real-Time-Face-Recognition-and-Surveillance-System)) Apr 2024 — Jun 2024

- Real-time surveillance system using VGG-Face for facial recognition
- Integrated with Apache Spark and Kafka for efficient data processing
- Technologies: Python, Spark, Kafka, VGG-Face

**Sequence-to-Sequence LSTM vs Transformer** ([github.com/Abdeljalil-Ounaceur/Sequence-to-Sequence-LSTM-vs-Transformer](https://github.com/Abdeljalil-Ounaceur/Sequence-to-Sequence-LSTM-vs-Transformer)) Mar 2024 — Apr 2024

- Comparison of LSTM and Transformer models for English-French machine translation
- Technologies: Python, LSTM, Transformer

### **Travel Reservation Platform with Django** ([github.com/Abdeljalil-Ounaceur/Travel-Reservation-Platform-with-Django](https://github.com/Abdeljalil-Ounaceur/Travel-Reservation-Platform-with-Django)) Dec 2023 — Feb 2024

- Academic project implementing a travel booking system with search, reservation, and user management features
- Technologies: Django, Python, JavaScript

### **Tamazight NLP Dataset Project** ([github.com/Abdeljalil-Ounaceur/Tamazight-NLP-dataset](https://github.com/Abdeljalil-Ounaceur/Tamazight-NLP-dataset)) Aug 2025 — Sep 2025

- Cleaned and extracted Tamazight-English dictionary data for NLP research use
- Technologies: Python, Data Cleaning, NLP

### **Online Quiz Platform with Laravel** ([github.com/Abdeljalil-Ounaceur/Online-Quiz-Platform-with-Laravel](https://github.com/Abdeljalil-Ounaceur/Online-Quiz-Platform-with-Laravel)) Feb 2023 — Jun 2023

- End-of-studies bachelor project implementing a quiz management system with MySQL database integration
- Technologies: Laravel, PHP, MySQL, HTML, CSS

## **CERTIFICATIONS**

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- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Oracle, Oct 2025
- Oracle AI Vector Search Certified Professional, Oracle, Oct 2025 (Expires: Oct 2027)
- Oracle Cloud Infrastructure 2025 Certified Data Science Professional, Oracle, Oct 2025 (Expires: Oct 2027)
- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate, Oracle, Oct 2025 (Expires: Oct 2027)

## **OPEN SOURCE CONTRIBUTIONS**

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- [nllb-tamazight-souss](#): Translation model for Tamazight Souss language
- [English-Tamazight-Dictionnary-2007](#): English-Tamazight dictionary dataset hosted on Hugging Face

## **SKILLS**

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- **Programming Languages:** Python, SQL, Java
- **Frameworks & Libraries:** Pandas, NumPy, Django, FastAPI, React
- **AI/ML Tools:** Stable Diffusion, Transformers, Diffusers, Hugging Face, OpenAI CLIP, BentoML
- **Backend Tools:** FastAPI, Celery, Docker, Docker Compose, REST APIs, gRPC
- **Data Tools:** MySQL, Oracle Database, Git, Jupyter, Google Colab
- **DevOps & Infrastructure:** Docker, Kubernetes, MinIO, S3 API, Prometheus, Grafana
- **Automation:** n8n
- **Cloud Platforms:** Oracle Cloud Infrastructure (OCI)
- **Specializations:** Data Processing, Machine Learning, Backend Development, Distributed Systems, Data Science & Analytics, Vector Search, Microservices

## **LANGUAGES**

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- **Arabic:** Native or bilingual
- **English:** Full professional proficiency
- **French:** Professional working proficiency