



HAMZAOUI THAMEUR

Address: Boudouaou Boumardes
Phone: +213559407669
Email: thameurhamzaoui9@gmail.com
Portfolio: <https://tmrdata.tech/>
linkedin: www.linkedin.com/in/hamzaoui-thameur

ABOUT ME

Visual Computing Engineer passionate about AI, Computer Vision, and Machine Learning. I specialize in creating AI models, intelligent agents, and mobile applications that address real-world challenges. With a solid engineering foundation and a deep curiosity for deep learning and automation, I aim to push technological boundaries. I'm also an open-source contributor, mentor, and lifelong learner.

PROFESSIONAL EXPERIENCE

AI/ML Engineer Specializing in Mobile Applications Jun 2024
Buildingo Labs | Remote, Canada

- Developed a Flutter-based mobile application with a user-friendly interface.
- Created an AI recommendation system leveraging user data to provide personalized suggestions.
- Implemented machine learning algorithms to enhance user engagement.
- Collaborated with backend teams to optimize API performance and data management.

Machine Learning Engineer Sep 2023- Jun 2023
Icosnet|Algeria

- Developed a customer support system that classifies tickets using ML and DL techniques.
- Extracted textual data from ticket images using OCR technologies.
- Applied transformer-based models to propose solutions for customer challenges.
- Fine-tuned large language models (LLMs) to improve ticket classification and response accuracy.

IT Technology in Arab Gaming Juil 2023- Aug 2023
Ministry of Youth and Sports of Algeria

- Managed network and streaming configuration for the Ministry of Youth and Sports of Algeria.
- Oversaw score and results tracking.

Mobile Development and DevOps intern Jui 2023- sep 2023
Air Algérie

- Collaborated with the mobile development team to design innovative mobile applications.
- Implemented DevOps practices to streamline development and deployment.

The chief technology officer of wink jan 2023- fev 2024
Injaz El Djazair

- During my internship at Injaz El Djazair, I gained valuable skills in entrepreneurship and business management. I acquired foundational knowledge essential for establishing and managing a startup. This experience allowed me to apply these skills in practice by co-founding the startup Win

Computer Vision intern jan 2023- fev 2024
RIIMA Laboratory Usthbr

- Completed an end-of-studies internship at the USTHB laboratory, focused on designing and developing a facial detection and recognition system for masked faces.
- Utilized Deep Learning techniques, including Convolutional Neural Networks (CNN) and the Multi-task Cascaded Convolutional Networks (MTCNN) model.
- Gained hands-on experience in computer vision and deep learning, developing key skills through a challenging research project.

EDUCATION

Master's Degree in Computer Vision

Université des Sciences et de la Technologie Houari Boumediene

- Thesis Theme: Developed a comprehensive customer support system, classifying tickets using ML and DL techniques, Leveraged transformer-based models and fine-tuned large language models (LLMs) to enhance ticket classification and response accuracy.

Bachelor's Degree in Computer Science

université des Sciences et de la Technologie Houari Boumedienne

- Thesis Theme: Designed and developed a facial detection and recognition system with mask utilization using deep learning, and Utilized Convolutional Neural Networks (CNN) and Multi-task Cascaded Convolutional Networks (MTCNN) for enhanced performance in mask detection.

SKILLS

- **Project Management:** Ability to plan and manage IT projects, experience with agile methodologies (Scrum), and solid knowledge of the V-Model lifecycle.
- **Database:** PostgreSQL, MySQL.
- **Languages and Frameworks :** Python, C, C++, Dart/Flutter, React/Nextjs, TensorFlow, JavaScript, Plotly, PyTorch, Numpy, langchain, LangGraph, Crewai, Django, API, Hugging Face, SpaCy, Gensim
- **Expertise:** Data Visualization, Machine Learning, Deep Learning, Artificial Intelligence, Natural Language Processing (NLP) and LLMs, Data Engineering, Mobile Development with Flutter, Image Analysis, Game Development
- **Version Control:** Git, GitHub, GitLab
- **Soft Skills:** Team Leadership , Communication and Collaboration, Problem-solving and Critical Thinking

LANGUAGES

- **Francais :** Natif
- **Anglais :** Professional
- **Arabic :** Fluent

PROJET

- **Icosnet Customer Support System:** Created a machine learning-powered support system for ticket classification, automated solutions, and OCR-based text extraction, enhancing workflows and enabling smarter automation.
- **Interactive Data Visualization (Plotly):** Created a web app using Dash, Plotly, and LLMs (LangChain, Groq LLaMA) for generating data visualizations from natural language inputs.
- **SaaS AI Short Video Generator:** Developed a SaaS platform leveraging LLMs to create scripts and generate short videos from natural language inputs, automating the video production process.
- **AI Mock Interview Generator:** Designed an AI-based system to simulate mock interviews, providing feedback and personalized coaching for candidates.
- **Mankala & Sokoban Games:** Built Mankala (AI-based Alpha-Beta algorithm) and Sokoban (solver with BFS) games to enhance competitive gaming.
- **Cheating Detection System :** Implemented a monitoring system for exams and games, labeling objects with bounding boxes and confidence metrics.
- **AI Web Scraping Tool:** Designed an AI scraper for structured data collection with ML for efficient navigation and integration into automation systems.
- **Bab El Oued Game (Unity):** Developed a Unity-based game with graphics, levels, and gameplay mechanics across platforms.
- **Mask & COVID-19 Identification:** Built a system using MTCNN for mask detection and Facenet for facial recognition, with initial work on COVID-19 symptom detection via medical image analysis.
- **Wink Support System (NLP):** Created an NLP-based support system to address user inquiries for Wink Group.

AWARD & LEADERSHIPS

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The chief technology officer wink

- The Global Possibilities Pitch Award by Fedex
- The Value Creation Excellence Award by Investcorp
- The Sustainability Award by Nestl

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- The best company award in algeria

Junction

Machine Learning Engineer

- the second place in the hackathon with project OPENFIRE