



Abdelkrim NACHEF
Data Science & AI Engineer
@ Djezzy (OTA)

Passionate about using Computer Vision and Natural Language Processing to extract insights and build intelligent solutions. My focus is on unraveling complex data patterns and crafting efficient intelligent systems.



<https://github.com/abdelkrimnachef>



<https://www.linkedin.com/in/abdelkrim-nachef>

Phone Number :+213 542280619

Email: abdelkrim.nachef@gmail.com

Date of Birth: 17/10/1997

Address: Khazrouna, Blida, Algeria

Work Experience

- **Data Scientist & Advanced analytics at Djezzy (OTA) from 09/2024 To Present**
- **Data Scientist at ATDD (Ascertia Algeria) From 04/2024 To 08/2024**
 - **Contract Critical Clauses Detection (Analyser)**
 - Demonstrated strong problem-solving skills in implementing ATDD Signing solution for comprehensive contract clause detection, reducing contract review time by 30%. ()
- **Data Scientist at Icosnet SPA From 08/2023 To 04/2024**
 - **Algerian State Documents Classification**
 - Built a classification model for Algerian documents (**NIF, NIS, RC**) using MobileNet V3, with TensorFlow deployed Linux server, improving document processing speed by 40%.
 - **OCR API for Alfresco**
 - Engineered and deployed customized OCR APIs for Alfresco, optimizing document processing and management, resulting in a 50% increase in processing efficiency
- **Junior Data Scientist at Icosnet SPA From 07/2022 To 08/2023**
 - **Whowiaty**
 - As a collaborative force behind Whowiaty, I contributed significantly to its development, achieving a remarkable 98% accuracy in ID card and passport data extraction. Working alongside a team, i deployed the system on a Linux server, showcasing proficiency in Ultralytics, OpenCV, PyTorch, and FastAPI, Linux deployment.
 - Leading the integration of critical features like face similarity checks and anti-spoofing measures, I spearheaded efforts to enhance fraud prevention in authentication processes. Leveraging DeepFace and zero-shot methods, we slashed product delivery time by 95%, demonstrating efficient collaboration and leadership in driving innovation and exceeding project goals
 - **Crowd Recognition (Team Lead)**
 - Exemplified strong leadership as the Team Lead for the development of a crowd recognition system. Guided and motivated a team of Sidi Bel Abbes Higher School students through the entire project lifecycle, using YOLOv8, Tensorflow, OpenCV, and DeepFace, highlighting adeptness in project management and technical proficiency. Resulted in the successful implementation of an advanced face detection and recognition solution.
 - **Icosnet Bot (Team Lead)**
 - Led the development of Icosnet Bot, an AI-driven Chabot addressing visitor inquiries using Spacy, Transformers, Langchain, and pandas, improving visitor response time by 50%.
 - **Icosnet Support Bot (Team Lead)**
 - Orchestrated the creation of Icosnet Support Bot, resolving client ticket issues and proposing solutions, utilizing Spacy, Transformers, Langchain, and pandas, enhancing client satisfaction and reaction speed to 300%.
- **Intern Artificial Intelligence at Icosnet SPA From 02/2022 To 06/2022**
 - **DZ ALPR (Automatic License Plate Recognition)**
 - Developed an Autonomous Algerian license plate extraction system with a 95% accuracy rate using MobileNetV3-UNet architecture, OpenCV, TensorFlow, and DeepFace.

Other Projects & Skills

- **Intelligent Book Reader**
 - Developed a tool using the ChatGPT API from Langchain to offer detailed responses to queries about any provided book, enhancing its capability to deliver insightful and contextually relevant responses.
- **Music Search Engine**
 - Designed a music lyrics search engine for English songs, indexing over 1 million songs and achieving an accuracy of 93%.
- **Sentiment Analysis**
 - Fine-tuned a BERT model for sentiment analysis, achieving a 96% accuracy rate in classifying comments as 'Good' or 'Bad', using Pandas, Sklearn, and NLTK.
- **Other Skills:**
 - **Machine Learning & Deep Learning:** Large Language Models (LLMs) - RAG - Llamaindex - Statistics & Calculus- Data Manipulation & Visualization - Models Deployment.
 - **Programming & Tools:** Algorithms - Wandb- Linux - Git - Kong API Gateway- Metaheuristics & heuristics - SQL & Databases - apis deployment

Education

- **Master NATURAL LANGUAGE PROCESSING (Artificial Intelligence)**
Saad Dahlab Blida, Algeria From 09/2020 To 08/2022
- **Bachelor Information System & Software engineering**
Saad Dahlab Blida, Algeria From 09/2016 To 07/2020

Certificates

- [Associate data scientist](#)
- [Data scientist Course Certificate](#)
- [Transfer Learning for NLP with TensorFlow Hub](#)

Languages

Arabic
Native

English
Professional

French
Professional

Voluntary Experience

- **Vice President** IT Community (Scientific Club at Saad Dahlab University Blida1) From 06/2018 To 07/2022
- **Member** Social Tech City (Association , Blida) From 09/2019 To 09/2020
- **Research and development manager at** Switch Usdb (Scientific Club at Saad Dahlab University Blida1) From 03/2018 To 07/2021

Interests

Computer Science | Astronomy | Technology | Football | Mathematics| Physics | Pharmacology | Teaching | Reading Books |