Hanafi Yasmine Lina Amina

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Recent graduate with a Master's degree in Big Data Analytics from the University of Science and Technology Houari Boumediene (USTHB), specializing in artificial intelligence, particularly computer vision applied to medical imaging. My work has focused on tasks such as image classification, segmentation, and object tracking. In addition to my experience in medical imaging, I have worked on various machine learning and data analysis projects.

Education

- **University of Science and Technology Houari Boumediene** — Algiers, Algeria
  Master's in Big Data Analytics — *September 2023 – July 2025*
- **University of Science and Technology Houari Boumediene** — Algiers, Algeria
  Bachelor's in Computer Science — *September 2020 – July 2023*
- **Mohammed Hadjres High School** — Algiers, Algeria
  Baccalaureate in Mathematics — *July 2019*

Skills

- **Programming Languages**: Python, C, Java, JavaScript, PHP
- **Frameworks**: Scikit-learn, TensorFlow, Keras, NLTK, Flask, Django, React.js, Node.js, Express.js, Three.js, React Native, Ajax, Tailwind CSS, Bootstrap, Socket.io
- **Python Libraries**: Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup, OpenCV, Pygame
- **Operating Systems**: Linux, Windows
- **Simulation Tools**: Cisco Packet Tracer

Experience

- **Houari Boumediene Airport** — Algiers, Algeria
  Master's Final Year Project — *April 2025 – July 2025*
  - **Role**: Developed an intelligent luggage cart tracking system using computer vision and tracking algorithms, aiming to prevent cart loss and monitor empty cart zones in real time.
- **USTHB** — Algiers, Algeria
  Bachelor's Final Year Project — *February 2023 – July 2023*
  - **Role**: Developed a mobile application for the segmentation and classification of skin cancer (melanoma) using data augmentation, U-Net, ResNet50, and other models.

Projects

- **Skin Cancer Segmentation and Identification (Melanoma) (L3 Seminar + FYP)**: Implemented U-Net for lesion segmentation, compared multiple CNN models, and developed a mobile app to capture and identify skin lesions. (Tech: Python, segmentation, classification, data augmentation, CNN, Flutter).
- **Pneumonia Detection from Chest X-Rays (Personal Project)**: Developed a deep learning-based system to detect pneumonia from chest X-ray images, involving preprocessing, augmentation, and CNN training for accurate classification. (Tech: Python, TensorFlow, Keras, Scikit-learn, PyTorch).
- **Carotid Artery Segmentation Using U-Net (Personal Project)**: Developed a U-Net-based deep learning model to segment the carotid artery from ultrasound images, aiding cardiovascular disease diagnosis and monitoring. (Tech: Python, TensorFlow, Keras, Scikit-learn, Matplotlib).
- **Breast Cancer Detection (Scientific Club Project)**: Mentored participants during a Datathon organized by Micro Club to build breast cancer detection models. (Tech: Python, TensorFlow, Keras, Scikit-learn, PyTorch).
- **Brain Tumor Classification (Personal Project)**: Built a CNN-based brain tumor classification system with Grad-CAM visualization using MRI datasets. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Brain Stroke Prediction (Personal Project)**: Developed a brain stroke prediction system using machine learning algorithms. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Parkinson's Disease Detection (Personal Project)**: Built a machine learning system for Parkinson's disease detection using SVM. (Tech: Python, Keras, Scikit-learn).

- **Diabetic Retinopathy Detection (Personal Project)**: Implemented transfer learning and deep learning architectures for diabetic retinopathy detection. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Kidney Disease Classification (Personal Project)**: Created a classification system for chronic kidney disease using structured data, feature selection, and multiple ML classifiers. (Tech: Python, Scikit-learn, Pandas, Matplotlib, Seaborn).
- **Luggage Cart Detection Using Computer Vision (M2 Seminar + FYP)**: Developed an automated monitoring system using YOLO-based computer vision to detect luggage carts in real-time video streams. (Tech: Python, TensorFlow, Keras, Scikit-learn, PyTorch).
- **SpaceNet Objects Classification (Personal Project)**: Classified celestial objects using deep learning models. (Tech: Python, TensorFlow, Keras, Scikit-learn).
- **Electricity Demand Prediction with XGBoost (Personal Project)**: Built a time-series forecasting model to predict electricity demand using 5 years of historical data and XGBoost. (Tech: Python, XGBoost, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn).
- **AI Web Scraper using LLMs (Personal Project)**: Used LLaMA 3.1 to extract targeted information from websites via web scraping. (Tech: Python, BeautifulSoup, LLaMA 3.1, Selenium, Streamlit).

Volunteer Experience

- **Micro Club** — Algiers, Algeria
  Head of Human Resources Department — *2023 – 2024*
- **Micro Club** — Algiers, Algeria
  Member of Human Resources and IT Department — *2022 – 2023*

Certifications and Awards

- Generative Deep Learning with TensorFlow — Coursera
- Advanced Computer Vision with TensorFlow — Coursera
- Deep Learning Specialization — Coursera
- Introduction to TensorFlow for AI, ML, and DL — Coursera
- French Language Proficiency Test (TCF) — C2 Level (647/690)
- Certificate of Event Organizer — Micro Club

Interests

- Reading / Writing
- Swimming
- Digital Painting
- Video Games