MOHAMMED IMRANE GRICHE

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ABOUT ME

I am an Artificial Intelligence student passionate about solving real-world problems. Currently, I am looking for a PFE (end-of-studies) internship in order to put my skills into practice and begin my experience in the professional world.

EXPERIENCE

Autonomous Vehicle Engineer Intern March 2024 – June 2024
IBN TOFAIL UNIVERSITY - SETIME LABORATORY

- Development of an autonomous driving system using ROS2 (Robot Operating System 2) for a real-time robotic control.
- Implementing sensor fusion with LiDAR and camera data for object detection and avoiding obstacles.
- Design and training of a deep learning model for lane detection and traffic sign recognition using OpenCV and TensorFlow.

PROJECTS

Detection of Dermatological Diseases

- Gather and clean a diverse dataset of dermatology images representing 7 different diseases.
- Creation and training of convolutional neural networks (CNN) to classify diseases
- Implementation of techniques such as regularization, learning rate adjustment and dropout to avoid overfitting and improve model results.
- using VGG16 pre-trained model to increase accuracy
- Evaluation of model performance obtaining result of 81% accuracy

Recognition of the Tifinagh Language (OCR)

- Data preprocessing Image resizing Binarization Segmentation
- Develop a CNN model for character recognition
- Design and train a CNN model for Tifinagh character recognition, Achieve accuracy of 98%.
- Deployment of the Application by Creating a user interface using Flask for the backend and HTML/CSS for the frontend.

EDUCATION

Master's degree in artificial intelligence and virtual reality
Ibn Tofail University — 2023 - 2025

Bachelor's degree in computer science
Ibn Tofail University — 2020 - 2023

Baccalaureate in physics and chemistry
Takdoum High School Kenitra — 2020

COMPÉTENCES

- **Data Sciences and AI :** Data analysis, Machine learning algorithms, Deep learning, NLP, Computer vision
- **Libraries:** TensorFlow, Keras, pythorch,OpenCV, Matplotlib, Pandas, NumPy,Flask, Django.
- **Tools and environments:** Jupyter Notebook, Kaggle, Git/GitHub, Docker, MySQL, MongoDB.
- **Programming languages** : Python,Java, SQL, HTML, CSS, JavaScript
- **Languages**: English (Advanced), French (Intermediate), Arabic (Native)