

ABDELMOUHAIMEN SARHANE

Computer Vision and Artificial Intelligence Student at INP-ENSEEIHHT seeking a summer internship with the goal of progressing to an apprenticeship in 2024/2025.

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Abdelmouhaimen

Toulouse, FR (Paris, Lyon, Rennes & Casablanca, MA)



PROFESSIONAL EXPERIENCE

IT Researcher and Developer Internship | ENAC | June 2023 - July 2023

- Conducted energy consumption assessment in matrix computations for compressed data.
- Developed C applications to compare compressors such as Blaz and ZFP using PowerJoular, while also applying them in the sports analysis field, particularly in creating heatmaps for player movement.
- Contributed to the writing of a paper which was accepted at the ICT4S 2024 conference.

EDUCATION

Image processing and Artificial Intelligence | INP-ENSEEIHHT | 2022-2025

- Advanced coursework in Artificial Intelligence methodologies, including Computer Vision, Deep Learning, and Image Processing.
- Extensive training in Concurrent Systems, Distributed Data, and Model-Driven Engineering.
- Diverse courses ranging from applied mathematics, Statistics, Optimization, Operations Research, artificial intelligence to business strategy, sustainable development, and project management.

MPSI/PSI Preparatory Classes | CPGE SAINT-BENOIT - Angers | 2020-2022

PROJECTS

Academic Projects | Deep Learning and Computer Vision | 2024

- Implementation of neural networks with numpy. Dogs and cats Classification. Posture estimation. Object Detection and Localization.
- Traffic Sign Image Classification, Data preprocessing and augmentation efforts, Model optimization techniques to prevent overfitting and improve generalization

Personal Project | Traffic light optimization with AI | 2023

- Convolutional Neural Network (CNN) model for the classification of European traffic sign images
- Data preprocessing and augmentation efforts to enhance model training and accuracy
- Model optimization techniques to prevent overfitting and improve generalization
- Technologies Used: Python, TensorFlow, Keras, Matplotlib*

Academic Project | Desktop App: RevEasy - Interactive Java Swing learning platform | 2022

- Swing GUI: Navigation, content management, text formatting
- Quiz Mechanisms: Personalized review options, backend logic implementation.

Personal Project | CS50X PERSONAL PROJECT - WEB APPLICATION | 2021

- Developed a Python-based web application using Flask, integrated with PostgreSQL for database management akin to phpMyAdmin, enabling easy viewing and editing of Heroku databases with a user-friendly interface.

SKILLS

- Python & libraries (sklearn, pomegranate, scipy, tensorflow, nltk, openCV), SQL, R Studio, Microsoft Office (PowerBI, Excel, PowerPoint), Java, OCamL
- Machine Learning & AI, Optimization, Statistics & Mathematical Modeling
- Effective Project Management and Collaboration, Innovative Leadership, and Strategic Problem-Solving.
- Languages: English (Fluent), French (Fluent), Arabic (Native) & Spanish (Beginner), Japanese (Beginner)

CERTIFICATIONS

- IBM AI Engineering Professional Certificate
- Python CS50P and CS50x Certificates in Advanced Python & Web Development
- Cambridge Linguaskill Business English Certificate : C1 or above