Fatoumata DIALLO

Application for end-of-study internship (minimum 6 months)

Personal Information

Fatoumata DIALLO

fatoumata.diallo6@etu.univ-orleans.fr

0604024094

ORLEANS/AUBERVILLIERS

Skills

- C/C++,Python,Linux embarqué
- Nvidia Jetson Orin/Nano
- Pytorch,TensorFlow CUDA,TensorRT,Keras
- Transformers ,OpenCV YOLO,CNN, RNN,GAN Transfer Learning Reinforcement Learning
- Traitement d'images Réseaux neuronaux Luxonis OAK-D Pro Wide
- DeepSORT,ONNX, Docker, SQL,AWS, Git

Languages

- Anglais

Interests

- Football,Basket-ball
- Deep learning, AI, and embedded systems

Soft Skills

- Autonomy, Punctuality, and Rigor Adaptability and teamwork

Computer Vision Intern

Currently in the final year of my engineering studies in Physics and Embedded Systems, I am seeking a 6-month internship in Computer Vision and Machine Learning. I aim to apply my skills in large-scale image and video processing by contributing to the development and optimization of innovative solutions. My interest particularly lies in deploying AI models, analyzing and continuously improving deep learning algorithms, and exploring new approaches in computer vision.

Education

Engineering Degree: Physics and Embedded Systems — **de 2024 à ce jour**
Polytech Orléans, Orléans, France
- Computer Vision, Practical Applied Learning in Embedded Systems, Data Analysis and Machine Learning

Engineering cycle: Electronics, IT and Telecommunications — **de 2022 à 2024**
INP-HB, Côte d'Ivoire
- AI, Data Science, Networks, IoT, IT

Preparatory Classes for Top Engineering Schools MP/MPSI — **de 2020 à 2022**
Institut National Polytechnique Houphouët-Boigny, Côte d'Ivoire
- Mathematics, Physics, Engineering Sciences

Baccalauréat C (Scientifique) — **de 2019 à 2020**
Collège Voltaire Marcory, Côte d'Ivoire

Projects & Professional Experience

de déc. 2024 à févr. 2025
Start-up Naman Technologies
Developed a project to detect parking space occupancy. This project included camera setup, mask creation to isolate areas of interest, real-time classification model development, and testing and optimization to ensure accuracy.

de sept. 2024 à ce jour
Polytech Orléans
Developed a multi-camera system to capture handwriting gestures in 3D, integrating vision models and embedded AI. Optimized real-time tracking on NVIDIA Jetson Orin to stabilize video acquisition.

Project JPO
Deployed a YOLOv8 Pose model on Jetson Orin for real-time object/person detection and tracking. Optimized video acquisition and resolution reduction to improve performance on an embedded system.

Certifications

Y'ello Hackathon — **avr. 2024**
Designed an AI-powered energy consumption optimization system for smart homes.

Huawei-Seeds For The Future Program 2023-2024 — **août 2023**
Participated in an intensive program on emerging technologies (5G, AI, Cloud Computing).