

Abdoulaye Diallo

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September 2025 graduate seeking **6-month internship** opportunities in AI

Areas of Interest: Gen-AI | Neural Networks | Computer Vision | NLP | LLM | MLOps | Reinforcement Learning

Education

- * **MEng in signal processing and computer vision**, ENSEIRB-MATMECA | TALENCE, France 2022-2025
- * **Preparatory classes for the "Grandes écoles"**, Lycée Pothier | Orléans, France 2019-22

Courses: Advance Linear Algebra | Signal Processing | Computer Vision | Control Systems | Optimization | AI(NLP,CNNs,RNNs,LLMs) | Software Development | Hardware Development| Analog Electronics

Experience

VanillaHR, AI Engineer Intern | Mérignac, France

May 2024 - September 2024

- **Designing, developing, and deploying** an advanced AI model for parsing resumes and CVs, leveraging **state-of-the-art** technologies and methodologies.
- Implemented a custom **YOLOv8** model for object detection to accurately identify and extract key sections within resumes and CVs.
- Utilizing **Named Entity Recognition (NER)** techniques to categorize and extract relevant information from the parsed content.
- Deploying the model on **AWS**, ensuring scalability and reliability for handling large volumes of data.
- Utilizing **Docker** for containerization, streamlining the development and deployment process.
- Employing **Terraform** for infrastructure as code (IaC), automating the setup and management of cloud resources.
- Conducting extensive research and analysis of various **architectures** and approaches for effective CV parsing, contributing to the optimization and accuracy of the model.

Skills

Programming Python, C, C++, Matlab, Ocaml, VHDL, Bash, Golang, Labview

Frameworks Scikit-learn, TensorFlow, Keras, SpaCy, PyTorch, Yolo, OpenCV, Jax

Tools and Technologies AWS, Docker, Terraform, Git, Jira

OS Linux, macOS

Soft Skills Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, On-site coordination

Projects

Deep Convolutional-GAN using Fashion MNIST

Jan 2024 - Present

Machine Learning and Artificial Intelligence, Personal Project

- Developing a Deep Convolution Generative Adversarial Network **DC-GANs** architecture and successfully trained within 50 epochs.
- Trying to attain a low DCGAN loss rate for the generator model, demonstrating generation of realistic synthetic images.

Optimization of AI MNIST Classifier

Jan 2024 - May 2024

Hardware Level AI Optimization, Personal Project

- Optimized an AI MNIST classifier on the hardware level using the RISC-V instruction set to accelerate inference time.
- Explored solutions by attaching coprocessors and building custom instructions for optimization.
- Contributed to the project with **C** for software and **VHDL** for hardware sections, focusing on a neural architecture with 2 CNN layers and 2 fully connected layers.

Spam Detector API

July 2023 - Sep 2023

Machine Learning API Development, Personal Project

- Developed a spam detector API using **Python**, **Scikit-learn**, and **Django**.
- Evaluated various machine learning solutions to determine the most effective model for spam detection.

Languages

English C1 level delivered by the IELTS (International English Language Testing System)

French Native proficiency

Spanish Intermediate proficiency

Interests

Sports Played soccer and basketball; currently into gym and Muay Thai.

Reading Interested in African independence literature, German philosophy, Grothendieck, and Dostoevsky.

Photography Enjoy capturing fascinating scenes.

Music Rap enthusiast.