

DOMO Adama, Engineering Student

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in Mon Linkedin

🌐 <https://portfolio-project-neon-eight.vercel.app/>



Employment History

- 04/2024 - 08/2024 **Qotto Startup, Paris, France** Development of a Revenue prediction tool by cohort and country.
- 08/2021 - 02/2022 **Centre MURAZ Biomedical Research, Bobo Dioulasso, Burkina Faso** Use of a logistic model with random effects to detect vaginal douching associated with the incidence of condom use failures.

Education

- 2022 - 2025 **ESIEA, Laval, France**
Engineering Degree in Artificial Intelligence & Data Science
- 2019 - 2022 **Nazi Boni University, Bobo - Dioulasso, Burkina Faso**
Bachelor's Degree in Applied Mathematics

Projects

AI Virtual Assistant Development – Medica Project

Capgemini Engineering – 2024

Contributed to the development of **Medica**, an AI-powered virtual assistant. Conducted a state-of-the-art review of large language models (LLMs), and participated in model deployment.

Technologies used: TensorFlow, CUDA, Ollama, HuggingFace Transformers, Docker.

Deep Learning Regression for Facial Occlusion Prediction

Developed a deep learning model to predict the percentage of facial occlusion. Tackled challenges such as dataset imbalance, fairness, and overfitting using regularization techniques and transfer learning.

Technologies used: PyTorch, CNN, ResNet, ViTMAE

Skills

- Mathematical & Topological Analysis **Topological Data Analysis (TDA):** foundational understanding and application to complex data characterization.
- Machine Learning & AI **Supervised learning** (MLP, SVM, Extra Trees), **unsupervised learning** (k-means, PCA, GMM), **ensemble methods** (Bagging, Boosting), **transfer learning**, and **information fusion**.
- Robust Modeling & Optimization **Bias reduction**, **model generalization**, and **resilience improvement** for AI systems.
- Deep Learning & Architectures **Implementation of Transformer, CNN, ResNet, and MLP architectures** — including a prototype implementation in Microsoft Excel.

Skills (continued)

MLOps	Deployment of CI/CD pipelines for machine learning workflows using MLOps practices.
Programming	Python, R, Java, SQL, NOSQL, Bash, Vue.js, Javascript W TeX.
Tools & Frameworks	TensorFlow, PyTorch, Scikit-learn, Hugging Face, Ollama, LangChain, Tableau, BigQuery.

References

Available on Request