Chris ESSOMBA

Data Scientist/Data Engineer/Data Analyst

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PROFILE

Final-year computer engineering student, trilingual, with hands-on experience building AI-powered solutions from data collection to deployment in research environments. I have designed LLM-based extraction pipelines, built MLOps workflows on Azure, and deployed time-series forecasting models using modern tools such as Python, R, Docker, and Kubernetes. I'm eager to join a collaborative AI team where I can deliver real-world impact through AI features and contribute to the reliability and observability of production-ready systems.

PROFESSIONAL EXPERIENCES

Data Scientist Apprentice (1 year),   10/2024 – present
French National Institute for Industrial Environment and Risks (INERIS)   Verneuil-en-Halatte, France

- Designed an ETL pipeline using an LLMs to extract structured metadata from scientific documents, enhancing automation in toxicological data curation.
- Developed an MLOps pipeline for real-time toxicity classification using Azure Databricks and Synapse.
- Created model evaluation workflows and dashboards using PySpark and Power BI to track model behavior over time.
- Actively contributed to two ongoing scientific publications by delivering reproductible and clean, modular codebases.

Technologies : Python (Tensorflow, Pytorch), Azure (Databricks, Data Lake), Power BI, GitHub Actions (CI/CD)

Machine Learning Engineer Intern (3 months),   07/2024 – 10/2024 | Madrid, Spain
University Polytechnic of Madrid (CITSEM, research center)

Objective : Development of a computer vision system to detect and track fish behavior in experimental videos.

- Pre-processed image datasets and trained a YOLOv8-based object detection model.
- Delivered analytics reports and prototype tracking software for marine biology research.

Technologies : YOLOv8, Neural Networks, Fine-Tuning, Power BI, Github actions (CI/CD)

EDUCATION

Computer Science Engineering program (Fith year),   09/2022 – present | Angers, France
ESAIP, engineering school

Engineering and data system program (Erasmus), *Polytechnic of Madrid*   01/2024 – 06/2024 | Madrid, Spain

CERTIFICATIONS

Azure AI Fundamentals (AI-900) | Azure Data Engineer Associate (DP-203) | IBM Data Science (Coursera)

RELEVANT SKILLS

- Containerization and deployment with Docker and Kubernetes (AKS)
- Machine learning model training, fine-tuning and deployment using Python (TensorFlow, PyTorch)
- CI/CD practices and metadata management using GitHub Actions & versioned model tracking
- Deployment and monitoring of LLM pipelines for document understanding and semantic search

ACADEMIC PROJECT

Cryptocurrency Price Tracking and Prediction, *ESAIP engineering school*   11/2024 – 02/2025

- Engineered a modular data pipeline to ingest real-time price data via REST APIs.
- Trained and fine-tuned an XGBoost model for short-term cryptocurrency trend forecasting.
- Implemented model serving via Dockerized microservices deployed on Azure Kubernetes Service (AKS).
- Designed and published lightweight dashboards using Streamlit for monitoring prediction metrics such as accuracy.

Technologies :Python (pandas, XGBoost, Scikit-Learn), REST APIs, Docker, Kubernetes (AKS), Git, Model Monitoring