Mamadou KANE

Mobility: France - Belgium

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Data scientist | Data consultant

I am passionate about technology and always eager to adapt to its advancements. I hold a **Master's degree in data science** with strong skills in **Machine Learning, Deep Learning, and Business Intelligence**. This background allows me to be a valuable asset to any company.
I am looking a **CDI** or **CDD** or **a pre-employment internship** to continue my career in the data field, particularly as a data scientist.

Technical Skills

Expertise	:	Build and deploy Machine learning and Deep Learning models, data analysis, Agile methodology
Languages	:	Python, R, Java, SAS, PL/SQL
DevOps | MLOps	:	Git , GitLab, Terraform, DBT, MLFlow, Docker , Airflow , Talend
Libraries	:	Scikit-Learn, Scipy, Spacy, PySpark, TensorFlow, PyTorch, FastApi
Database	:	MySQL, PostgreSQL, Oracle, MongoDB, Snowflake, BigQuery, SQL Server, Chroma db
Data visualization	:	Matplotlib, Seaborn, Plotly, Tableau, Power BI
Cloud	:	MS AZURE, AWS, GCP, SAS, Databricks
AI / Gen AI	:	LLM, RAG, Ollama, Langchain, Llama Index, Hugging Face, Open AI

Experiences

Data scientist April – September 2024
Franfinance *Nanterre, France*
Development of a predictive Deep Learning model for the recovery of bank loans.

- This involves : Analysis of existing data (structured and unstructured). Processing millions of lines of data. Implementation of NLP techniques (Topic modeling). Building predictive model using Deep Learning. Model evaluation.
- This allows the bank to prioritize and optimize its recovery strategies and enhances the ability to analyze large volumes of data, leading to more informed decision-making and reduced financial losses.
- Tools : PyTorch, LSTM, NN, NLP, SAS, Polars, ETL, GitLab, Mlflow, etc.

Developer : Robotics programming May – July 2022
LaMSN *Paris, France*

- Program the movement of a robotic arm which will help gain precision in carpal tunnel surgery.
- In collaboration with a surgeon and M2 data scientist students.
- Tools: Arduino, mechanics, Git, SCRUM agile method, etc.

Education

Sorbonne Paris Nord University Paris, France
Master of Data Exploration and Decision-Making *Oct 2019 – Sep 2024*
Courses: Machine learning, Deep Learning, Business Intelligence, etc.

Projects

Credit score and customer segmentation *Sklearn, Matplotlib, Plotly, Streamlit, Clustering* **Source Code**

- Credit scoring aims to determine the creditworthiness of individuals. The process of calculating credit scores and segmenting customers involves several steps. Firstly, relevant data about borrowers is collected and organized. Then, using complex algorithms and statistical models, the collected data is analyzed to generate credit scores for each borrower. Once the credit scores are calculated, customers are segmented into different risk categories or credit tiers based on predefined thresholds. **view website**

RAG : Chat with your PDF *Ollama, LangChain, LLM, Chroma, Embedding model, Streamlit* **Source Code**

- A powerful local RAG (Retrieval Augmented Generation) application that lets you chat with your PDF documents using Ollama and LangChain. A Streamlit web interface is provided for easy interaction.

Movie recommendation system *Python, NLP, PCA, Clustering* **Source Code**

- Build a machine learning model that Recommend a movie based on movies watched. This involves preprocessing the data, reducing dimensions, vectorizing text, clustering, similarity search.

Languages

- **French** : Native **English** : Professional