Aslane MORTREAU

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Experience

Freelance (Data Engineer, Data Science, DataOps, Statistician) Sep 2020 – Now

Data Research Engineer, LVMH Recherche – Orléans, France Aug 2023 – Now

- Developed R Shiny applications for in vivo efficacy analysis used by the Innovation Lab and conducted statistical analyses using mixed models, ANOVA, and Cox regression.
- Research Project: Developing an AI Model for Raw Material Substitution in Cosmetic Formulations

Research Assistant, ESIEA – Paris, France Jan 2023 – Oct 2023

- Co-authored a peer-reviewed scientific paper on AI in telecommunications.

Analytics Engineer, dFakto – Paris, France Sep 2022 – Aug 2023

- Led the creation of data models and information marts for various client projects, ensuring data accuracy and accessibility using Data Vault Methodology.
- Designed and implemented database queries to support business intelligence needs, improving reporting efficiency and data-driven decision-making.

Education

EPISEN, Msc Biomedical Engineering/ AI

- **Coursework:** Bioinformatics, Data Science, Fluid Mechanics, Genomics, Genetics, Health Economics, Image Processing, Medical Imaging, Networks, OOP, Pharmacology, Physiology, Proteomics, Signal Processing

University of Michigan, Summer Program

- **Coursework:** Algorithms, Data Science/NLP, Web Developpement

ESIEA, 1st Year - Msc Computer Science/ Data Science

- **Coursework:** Data Science, Hardware, Networks, OOP, Signal Processing, Statistics

University of Nantes, BS in Statistical Engineering

- **Coursework:** Algebra, Calculus, Group Theory, Markov Chain, Probability, Python, Statistics

Publications

From tradition to innovation: The telecommunications metamorphosis with AI and advanced technologies Oct 2023

Khadija Slimani,Khoulji Samira, ***Aslane MORTREAU***, Kerkeb MOHAMED Larbi

10.32629/jai.v7i1.1099

Projects Technologies

Random Walk Pipeline github repository

- Developed a real-time data processing pipeline simulating random walk data generation using a Dockerized Python application, streaming data through Kafka for robust messaging and vizualized with Grafana.
- Implemented Telegraf for data collection and integrated with InfluxDB for real-time storage of time-series data.
- Tools Used: Docker, Grafana, InfluxDB, Kafka, Python, Telegraf

Bio-informatics Pipeline

- Transformed a Snakemake pipeline into an Airflow pipeline for bioinformatics, optimized pipeline speed by 30% for faster reads mapping and data analysis.
- Tools Used: Airflow, Bash, Docker, Python