BELARIF LOUIZA

Internship Machine learning engineer

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DOMONT,95330, France

RÉSUMÉ

Holding a double degree in Artificial Intelligence and Web Development, with a strong passion for technical challenges and a deep motivation to take on new opportunities. Ready to push the boundaries of innovation!

EXPÉRIENCE

Data Engineer

The National Economic, Social and Environmental Council
09/2022 - 08/2023 Algeria,DZA

- Developed macroeconomic models (Stock Flow Consistency) using R to simulate interactions between the real, monetary, and financial sectors, and forecast economic scenarios for Algeria.
- Maintained a relational database using MySQL and proposed an architecture for migrating and setting up a data warehousing schema.
- Modeled GDP estimation from satellite imagery to analyze economic dynamics and assess the impact of public policies across various regions. Skilled in VAR, VECM, and ARIMA models for econometric estimations.

Instructor in Machine Learning

GOMYCODE startup 08/2021 - 08/2023 Algeria, DZA

- Taught Python and fundamental machine learning concepts, including supervised models such as KNN, linear regression, and logistic regression, along with unsupervised models like K-means, CLARANS, and Apriori.
- Taught student how to build a relational database using MySQL.
- Supervised student projects, providing technical guidance and progress evaluation.

Junior data scientist

Casbatech startup 02/2021 - 08/2021 Algeria, DZA

- Implemented a data warehousing solution that integrated data streams for enhanced analysis and reporting, leveraging ETL processes and Elasticsearch for fast data retrieval, working in relational database MySQL.
- Data visualization using Tableau.

ÉDUCATION

Master's in Full-Stack Web and Mobile Development

University of Corsica
09/2023 - Présent France,FR

Master's in Intelligent Information Systems.

University of Science and Technology USTHB
09/2017 - 07/2019 Algeria,DZA

LANGUES

French Proficient

English
Intermediate

PUBLICATIONS

BSO-MV: An Optimized Multi- view Clustering Approach for Items Recommendation in Social Networks

JUCS - Journal of Universal Computer Science 27(7): Advances and Challenges for Model and Data Engineering

Lamia BERKANI, Lylia Betit, Louiza Belarif,

2021 https://doi.org/10.3897/jucs.70341

An optimized multiview clustering approach for the recommendation of items in social networks. First, the selection of the initial medoids is optimized using the Bees Swarm optimization algorithm (BSO) in order to generate better partitions

SKILLS

Programming Languages:

Python (Expert), R (Proficient),C++ (Intermediate), PHP(Intermediate),JavaScript/React (Intermediate)

Database/Server

MySQL, PostgreSQL,SQL Server,MongoDB

Machine learning tool :

TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, Django, Flask,PySpark

Geographic tools

Arcgis, QGis, Leaflet.

Other tools

Containers : Docker
SCM : Git
Search Engine : Elasticsearch
Monitoring : Telegraf, InfluxDB, Chronograf,Grafana, Logstash (ELK)
Visualization : Tableau, Stramlit, Dash

Forecasting Model Development & Optimization

- Developed an unsupervised clustering-based recommendation system using the CLARANS algorithm, optimized by the Bees Swarm Optimization (BSO) algorithm. This approach improved the accuracy and coverage of recommendations, particularly in social network contexts.

Natural Language Processing:

BERT model, Roberta model, VADER , NLTK , LDA

AI Specializations:

Natural Language Processing, Computer Vision, Reinforcement Learning, Deep Learning, Generative Models, Evolutionary Computation,Statistical Modeling,Retrieval-Augmented Generation (RAG), Large Language Model (LLM)

INTERNSHIP

Data Mining and Processing Internship for the Development of Quality of Life Indicators

05/2023 - 07/2023 France,FR

University of Corsica

- Implemented and tested LLM models for sentiment analysis.
- Developed tokenization and embeddings algorithms.
- Designed topic modeling algorithms