

DBIRA MOEZ

Data Scientist / Engineer

@ dbiramoez@hotmail.fr 147 rue des Meuniers, Bagneux 92220, France
in moez-dbira dbiram

+33605557172



EXPERIENCE

Data Engineer

Schneider Electric

Dec 2021 – Ongoing Paris, FR

- Led developments of an ETL Python app and optimized its SQL queries on Redshift, improving the execution time by more than 50%
- Designed data warehousing architectures for BI, ensuring incremental updating and high availability of over 2TB of records
- Built Dashboards in Tableau for monitoring the different ETL apps and tracking different failures, lowering number of failures from more than 2 failures per day to less than 1 failure a month
- Created a Safe File Transfer ETL with Informatica cloud to automate data extraction tasks, diminishing the workload from multiple days with manual intervention to less than 1 hour of automated execution.

Data Scientist Intern

Generix Group

May 2021 – Nov 2021 Paris, FR

- Explored usage of Computer Vision to calculate number of parcels on a pallet with OpenCV
- Developed an asynchronous API to optimize truck load with stack units, using heuristics in Python and a deep reinforcement learning solution combining actor-critic methods with adversarial neural networks in Keras. Achieved a 15% reduction in transportation costs, with the RL solution outperforming heuristics in handling priority stack units for optimized load distribution.

Data Scientist Intern

Virtuo Technologies

Mar 2020 – Aug 2020 Paris, FR

- Improved the Machine Learning user demand forecast model developed in R and automated the re-training and fine tuning with Python, increasing the accuracy by 5%
- Enhanced the SGD-based car supply optimization model developed in R, leading to a reduction in run time by 5 hours

Data Scientist/Engineer Intern

Generix Group

Jul 2019 – Jan 2020 Paris, FR

- Set up an ETL process in Python to extract batches of data from S3, calculate over 100 KPIs, load results into redshift database and visualize the on a Quicksight dashboard
- Applied SARIMAX Machine Learning model from sklearn to forecast workload in a warehouse, reducing by 20% the expenses on seasonal operators

EDUCATION

M.S. in Artificial Intelligence

Centrale Supélec

Sep 2017 – Nov 2021

- Mathematics, Machine & Deep Learning

LANGUAGES

- Arabic : Native
- French : Bilingual
- English : Professional
- German : Basic

PROJECTS

Social Media Impact on Football Performance

- Implemented a scalable real-time data pipeline to process semi-structured data from Twitter and Bundesliga APIs, storing and processing over 10,000 records by daily batch in a HDFS Data Lake and a MongoDB Data Warehouse, using python

Scalable Recommendation Engine for Game Apps

- Developed a Python-based Recommendation Engine for optimizing advertising across 100,000+ game apps, comparing collaborative, content-based, and contextual filtering methods, with Matrix Factorization achieving a 20% improvement in NDCG over clustering.

SKILLS

- Python, R
- Machine learning algorithms and libraries
- Deep learning frameworks: TensorFlow, PyTorch
- Reinforcement Learning
- SQL and Big Data system design
- Tableau, Quicksight
- FastAPI
- MLops: MLFlow, Ray
- Git version control
- AWS, Redshift, S3