CHAALAL MOHAMED

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ABOUT ME

Data Scientist looking for opportunities to innovate and solve problems through data analysis, artificial intelligence and machine learning model development. Skills in database management and big data applications. Motivated to harness my analytical talents to create impactful data-driven solutions.

Tech Skills

Programing: Python, R, Java, SQL,
DBMS: Postgresql, MongoDB, Snowflake
Big Data: Hadoop - MapReduce, Spark
Data Visualisation: Tableau, Microsoft PowerBI
Machine Learning: Supervised & Unsupervised (-Sklearn, Xgboost)
Deep Learnig: Pytorch, HF-Transformers, GenAI and LLMs (Fine-tuning)

- Orchestration (Docker , Kubernetes …)
- CI/CD (Git, Jenkins ..)
- AWS Cloud (Athena, S3, Redshift, …)
- Excel, Powerpoint …

- Ability to work in a fast paced environment.
- Strong interpersonal skills

EXPERIENCE

Data Scientist - Intern
Feb 2024 - Present

The Goodyear Tire & Rubber Company, Luxembourg

- Developing customer churn prediction model using customer micro-segmentation methods, including LTV calculation, with documentation in Confluence and version control in Jenkins.
- Developing ETL pipelines to preprocess & analyze customer data in Snowflake with SQL & Python
- Conducting monthly progress meetings with IT and business stakeholders to discuss updates, challenges and gather feedback

Data Scientist - Intern
March 2023 - August 2023

Luxembourg Institute of Science & Technology, Luxembourg

- Performed a review of the state of the art on the tools and techniques used for entity resolution.
- Evaluated a selection of methods using machine learning on the knowledge graph comprising over 200,000 nodes and relationships.
- Designed and implemented the improved methods in Python, with documentation for code reproducibility.

Data Analyst - Intern
April 2022 - July 2022

BNP Paribas, Algérie

- Developed a customer-centric dynamic pricing model for adaptive pricing strategies.
- Performed customer segmentation to identify homogeneous families for tailoring pricing and differentiated rates, using unsupervised models (K-means, DBSAN, etc.).
- Evaluated results through several metrics (Silhouette Coefficient, Dunn's Index etc..)

PROJECTS/ COMPETITIONS

Hack !T 2022

May 202

Developed a time series model for real-time analysis and forecasting of household energy consumption, based on data from different sensor

UmojaHackAfrica 2022

March 2022

Participate in an African hackathon for university students to create the best machine learning model to detect faulty air sensors based on their output data

Google DevFest 2021

November 2021

Collaborated on the development of an AI tool to monitor concentration by analyzing posture and body language signs.

EDUCATION

Master Machine Learning for Data Science	Engineer + Master Data Science & Artificial Intelligence	Preparatory classes Science and technology
Université Paris Cité	Ecole Nationale Polytechnique d'Alger (ENP)	Ecole supérieures des sciences appliquées d'Alger (ESSA)
Sep 2023 - Present	Sep 2020 - Sep 2023	Sep 2018 - Sep 2020