

Mustapha Bouhsen

Website

Montreal (Québec)

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Langue: French, English, Arabic

SKILLS

Machine Learning, Deep Learning, Data Engineering, Data Analysis, Data Visualization

Probability, Statistic, Risk Theory, Survival analysis, Actuarial mathematic

Languages: R, Python, SQL, C++, Git, Bash

Tech Tools: Databricks, Microsoft Azure, Synapse, Tableau, Power BI

Frameworks: PySpark, PyTorch, Pandas, NumPy, Matplotlib, Sci-Kit Learn, ggplot.

EDUCATION

M.Sc. in Data Science

2022 - 2023

HEC Montréal

B.Sc. in Actuarial Science.

2019 - 2022

École d'actuariat - Université Laval

EXPERIENCE

Data Engineer intern at Bombardier

2023/09-

- Create **PySpark** ETL pipeline to transfer files in parquet format to **Microsoft Azure** storage.
- Created **ML algorithms** to predict plant part prices.
- Implemented **pipelines** and **SQL** scripts for tracking and communicating automated migration progress via email.

Achievements:

- Optimize **ETLs** that initially took at least **48 hours** to reduce it to just **8 minutes (99.72%)**, improving business efficiency and productivity.
- Developed a robust general-purpose library using **Apache Spark** to streamline and accelerate the creation of data processing pipelines.
- Refactor the transformation process from using **Pandas** to **PySpark** for process optimization.
- Convert **SQL** to **PySpark** code for enhanced flexibility and leverage Spark's distributed computing capabilities, contributing to optimized data workflows.

Data Scientist searcher at Laval University

2022/04-2022/09

- Employ **Pandas** and **Scikit-learn** for thorough data cleaning, addressing missing values, and handling outliers.
- Conduct **statistical inference**, employing Regression Analysis and Hypothesis Testing, to gain insights into the influence of variables on the overall condition of golf courses.
- Implement **machine learning** algorithms, including **Random Forest**, **KNN**, and **Gradient Boosting**, utilizing both **Python** and **R** environments. These models predict the impact of various chemical components on the condition of golf courses.

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2021/04-2021/09

- Address missing data and perform data cleaning using **R** and **python**.
- Run optimization algorithms on Compute Canada using **C++**.
- Automate tasks using **R** and **Python** and reduce processing time that **takes hours** in just **one click**.

Projects

- [Financial Data Intelligence Suite](#)
- [A STUDY OF BANK CUSTOMER CHURN](#)
- To see all my projects, please visit my [website](#)