

Matthew Lepicier

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EDUCATION

M.Sc. in Management and Business Analytics

Ivey Business School, Western University

2021 – 2023

London, ON, Canada

M.Eng. in Computer Science and Operations Research

University of Technology of Troyes | University of Miami

2016 – 2021

Troyes, France | Miami, FL, USA

EXPERIENCE

Data Science Consultant

Data SEA Consulting

Mar. 2023 – Present

Toronto, ON, Canada

- Engineered end-to-end data products from custom API Clients and ingestion connectors to the architecture of Spark-based ETL pipelines within the Databricks Data Lakehouse Platform, embedding industry-leading DataOps standards
- Established robust MLOps frameworks to streamline continuous training workflows and optimize the deployment of machine learning solutions served via production-grade API endpoints, ensuring continuous monitoring of deployed models
- Designed CI/CD pipelines and automation strategies to foster DevOps adoption, resulting in enhanced team agility and accelerated software delivery cycles, alongside strengthened data governance protocols
- Harnessed the power of our analytics solutions to help our clients solve complex problems and drive business outcomes through promoting self-service data marts, automating reporting and operational processes, and delivering ad-hoc analysis

Financial Engineer

ProFolio Investment Management Inc.

Dec. 2022 – Feb. 2023

Edmonton, ON, Canada

- Conceptualized an optimization algorithm minimizing the mean-absolute semi-deviation to select stock portfolios with maximum Sharpe ratio satisfying a given risk profile, set of industry preferences, and required rate of return
- Forecasted expected returns using revisited Fama-French models to enhance inputs of the portfolio optimization model

Data Scientist

SAS Institute Inc.

May 2022 – Aug. 2022

Toronto, ON, Canada

- Used SAS APIs to integrate Python and SAS materials in Viya's distributed environment to release *Cortex coding*, a case-based machine learning teaching platform used worldwide within universities and companies' data science departments
- Implemented multiples predictive machine learning pipelines in partnership with HEC Montreal's ERPSim Lab Professors to assess the quality of various candidate business use cases for the Cortex analytics simulation platform

Data Analyst

Danone

Feb. 2021 – Jul. 2021

Paris, France

- Collaborated with the Mexican and German teams to build a proof-of-concept for a digital-twin by creating a suitable data model using SQL and DAX to provide an end-to-end data analytics solution on Power BI and Azure
- Created a tailor-made web-scraping algorithm using Python and Selenium to retrieve unstructured geographic data about plant location and HR data about employees' workplace profiles to ingest it in JSON collections for business purposes

Operations Research Analyst

Mars Inc.

Jan. 2020 – Jul. 2020

Orleans, France

- Developed a fully-automated modified exponential moving average model using visual basic to forecast upcoming workload daily by analyzing sales data and SAP transactions to smoothen operations: achieved 94% of accuracy
- Modeled a bin packing problem and coded optimization heuristics on AMPL to process shipment data and highlight potential opportunity for truck-load improvement: up to 2.5 pallet gain identified
- Automated data queries through SQL and M language on a TMS database to merge ad-hoc reports into one centralized Power BI Dashboard to enhance management analytics by providing scorecards and standardized KPIs

PROJECTS

Unsupervised Customer Segmentation Hackathon - Deloitte and Scotiabank | SAS

Mar. 2022 – Apr. 2022

- Identified high-value customers using k-means and PCA to propose effective acquisition and cross-sell marketing strategies

SPECIALIZED SKILLS

Programming: Python, PySpark, SQL, Spark SQL, R, SAS, Shell Scripting, VBA, AMPL, JavaScript

Software: Databricks, SAS Viya, Jira, Git, Cplex, Dataiku, MatLab, Excel, Power BI

Libraries: MLflow, Spark ML, Scikit-learn, XGBoost, TensorFlow, SciPy, Pandas, NumPy, Matplotlib, Seaborn, Selenium

Languages: English : Fluent | French : Native | Spanish : Intermediate