Philippe Béliveau

philbeliv@gmail.com | (514) 773-4780|Montréal, QC| LinkedIn

WORK EXPERIENCE

TEC Energy **Oct. 2024 – Jan. 2024**
Data analyst *Montreal, QC*

- Collaborated directly with engineering teams to build a fuzzy matching strategy using SQL and LGBM models to reconcile divergent generator datasets across the U.S., automating manual mappings that previously took hours per generator.
- Designed a pipeline including data normalization, similarity scoring, and ranking models, to accelerate the mapping.

CroesusLab **Jun. 2024 – Oct. 2024**
AI Research Developer *Montreal, QC*

- Developed three generative adversarial network architectures for generating synthetic databases, focusing on recreating temporal dynamics (autocorrelation) within relational tables.

Videns Analytics **May. 2023 - Aug. 2023**
Data scientist *Montreal, QC*

- Developed three cash flow forecasting approach at daily and weekly levels using statistical time series model and MDP.
- Evaluated the feasibility of short-term cash flow prediction at granular horizons, delivering a comprehensive use case that highlighted technical and business constraints while ensuring alignment with treasurers' operational realities.

Groupe Azur **May. 2022 - May. 2023**
AI business analyst/Product owner *Montreal, QC*

- Led user discovery with over a dozen corporate treasurers, translating business needs to the data science team.
- Coordinated with the data science, and client teams to deliver relevant features, such as interpretability and adaptability.
- Conducted market research on third-party solutions, authored the service offering, estimated project costs, resourcing needs, and structured delivery roadmaps.

Premier Tech **Jan. 2021 - Jan. 2022**
Business intelligence *Montreal, QC*

- Proposed and developed a lead qualification model estimating client closing probabilities. I managed the entire pipeline, from acquiring and assessing data to conducting stakeholder interviews, building the model, and planning for adoption.
- Built and integrated time series sales forecasting models into Power BI dashboards.
- Performed critical data quality assessments and statistical analysis, challenging assumptions of what drives sales.

EDUCATION

University of Montreal **Dec. 2022 – Oct. 2024**
Fin-ML Scholarship, Research Student *Montreal, QC*

- Fellowship received quantitative finance by Fin-ML, where I worked on machine learning problems applied to finance while getting involved in Montreal's Fin-tech community.

HEC Montreal **Graduation May 2024**
Master's degree in Data Science *Montreal, QC*

- Relevant project: Federated learning for retinal image classification + differential privacy.

John Molson School of Business, Concordia **Graduation Apr, 2022**
Bachelor of Commerce, major in economics and minor in data intelligence. *Montreal, QC*

PROJECTS & EXTRA-CURRICULAR ACTIVITIES

Personal AI project in progress **Jan. 2025 – present**

- Side project: developing a career development platform to predict student career paths and structure youth learning, using LLMs, prompt engineering, fine-tuning, and graph, hosted on AWS.

Centro de Investigación de Matemáticas, A.C (CIMAT) workshop, *Guanajuato, Mexico* **Jan. 2024 – Jan 2024**

- Invited to participate in a 5-day workshop on solving a real-life inventory management problem for a Mexican company.

Maintenance prediction - Société des Transports de Montréal, *Montreal, QC* **Aug. 2023 – Aug. 2023**

- This 5-day workshop enabled us to develop a Markov Decision Process-based approach for predicting maintenance needs of the Société des Transports de Montréal.

HEC Data Challenge competition – First prize winner, *Montreal, QC* **Mar. 2022 – Mar 2022**

- Winner of a data science competition where our team prototyped a predictive sales model and defined a realistic approach to the business challenge.

Innovation Lab, Concordia University, *Montreal, QC* **Sep. 2021 – Jan 2022**

- Learned design thinking, iteration, and innovation mindset while developing a trading bot.

PROGRAMMING LANGUAGE

Python, SQL, R, Power BI, FastAPI, AWS, Next.js, Pinecone, Hugging face, mlflow