Vincent Quenneville-Bélair

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Experience

Machine Learning Engineer.   Facebook AI Applied Research, NY.   2019-Now

Expand the open source deep learning framework PyTorch through internal and external research collaborations.

Machine Learning Scientist.   Amazon, NY.   2017-2019

Generate long-term stragegic inventory capacity forecast. Model counterfactual scenarios. Optimize supply chain expansion recommendations.

Build causal impact models to estimate advertising campaign lift. Infer future returns and optimize advertising portfolio.

Teach internal machine learning specialization course series on matrix factorization, dimensionality reduction, and recommender systems.

Chu Assistant Professor of Applied Mathematics.   Columbia University.   2015-2017

Model gravitational wave propagation to understand black hole collisions. Create and analyze novel specialized mixed finite element methods to simulate these models numerically.

Chief Data Scientist.   Vizanda, NY.   2016-2017

Develop web-based software to automatically extract information from structured and unstructured data on the fly. Process the information to programatically generate relevant visualizations and intelligent insights.

Education

PhD Applied Mathematics.   University of Minnesota.

NSERC Alexander Graham Bell Canada Graduate Scholarship
University of Minnesota Doctoral Dissertation Fellowship
Mentored over 20 teams for international Mathematical Contest in Modeling

MCS Computer Science.   University of Minnesota.

MSc Applied Mathematics.   University of Minnesota.

FQRNT Research Scholarship

BSc Mathematics and Physics.   McGill University, Canada.

Twice meritorious winner in international Mathematical Contest in Modeling
First class honors

Technologies.   Python, PyTorch, Scikit-Learn, SQL, Spark, Linux.