Vincent Quenneville-Bélair, PhD

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Experience

Machine Learning Scientist. Amazon. 2021-Now

Design deep learning models to forecast product demand for supply chain optimization.

Lead model implementations from research to production across supply chain.

Machine Learning Engineer. Facebook AI. 2019-2021

Steer the open source community to develop PyTorch torchaudio and optimization libraries.

Develop deep learning models and training pipelines for audio and speech recognition.

Machine Learning Scientist. Amazon. 2017-2019

Generate long-term strategic 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 machine learning specialization course series on matrix factorization, dimensionality reduction, and recommender systems, at the Amazon Machine Learning University.

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. 2016-2017

Develop software to automatically extract information from structured and unstructured data on the fly. 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

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.