Matteo Esposito

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Skills

Programming/Software

• Python (pandas, geopandas, numpy, scikit-learn, matplotlib) | Java | R | Git | SQL | MFX

Languages

• English | French | Italian

Work Experience

Intact Insurance | Intact Lab - Al in Operations

Montreal, Quebec

DATA SCIENCE INTERN

May 2020 - Aug. 2020

• Built an expert system to accelerate the online insurance quoting process.

Aviva Canada | Data Science & Analytics

Montreal, Quebec

ANALYTICS CO-OP

May 2019 - Apr. 2020

- Developed and maintained a package in python used for actuarial calculations.
- Integrated package with modelling pipeline and replaced legacy process. (5-6x improvement in average runtime)
- · Exploratory data analysis: Tested 3rd party geolocation/telematic data for added value in current predictive models.

Intact Insurance | Contact Personal Lines

Montreal, Quebec

ACTUARIAL CO-OP

Sept. 2018 - Dec. 2018

- · Validated premium calculations and ensured that they were correctly implemented from previous systems in new policy viewing software.
- Maintained and modified policy reconciliation SAS/SQL programs.

Aviva Canada | Pricing Analytics

Montreal, Quebec

ANALYTICS CO-OP

Jan. 2018 - Aug. 2018

- · Built predictive models to model frequency and severity of personal auto insurance claims for the Atlantic region of Canada.
- · Reduced error of variable imputation in Ontario pricing databases by 20% using multiclass classifiers.
- Built a database of at risk clients in SAS & trained binary classifiers to predict risk of default with 85% accuracy for the optimization of the current risk/client selection process.

Education

University of Montreal (MILA)

Montreal, Quebec Sept. 2020 - Aug. 2022

M.Sc. Computer Science, Machine Learning Specialization

· Professional Masters completed at the MILA (Montreal Institute of Learning Algorithms) lab at University of Montreal.

Concordia University Mon

B.Sc. Actuarial Mathematics Co-op with Minor in Computer Science

Montreal, Quebec Sept. 2016 - May 2020

- Graduation with Distinction
- Member of the Co-op Institute, Golden Key International Honour Society (Top 15% of students in actuarial mathematics program) & Data Innovation Society.
- Actuarial exams passed during studies: P (Probability), FM (Financial Mathematics), MFE (Models for Financial Economics)

Projects

Maze Solver (Gridworld Reinforcement Learning Agent)

• Built a maze solving agent using common reinforcement learning approaches.

Winter 2019

• Methods implemented: Q-Learning, SARSA (State-action-reward-state-action), n-step SARSA.

Project Euler

• Computational mathematics-related question solved using Java and base Python.

Winter/Summer 2019

• In top 3.5% of all users with 63 project Euler questions solved

Desjardins Lab DataCup

• Data science competition with the goal of predicting risk of credit default.

• Placed 29th out of 150+ teams. (AUROC = 0.895, 1st place AUROC = 0.920)

Summer 2018