

Brad Klassen

MSC STATISTICS · BSC MATHEMATICS & STATISTICS

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Education

MSc Statistics (Statistical Learning Concentration)

BROCK UNIVERSITY

St. Catharines, ON

Jan 2020 - Apr 2021

BSc (Hons) Mathematics & Statistics Co-op, Business Minor

BROCK UNIVERSITY

St. Catharines, ON

Sep 2015 - Dec 2019

- 3rd & 4th year cumulative GPA of 89% (3.77/4), overall cumulative GPA of 84.5% (3.61/4).

Experience

Brock University

MACHINE LEARNING RESEARCH ASSISTANT

St. Catharines, ON

Jan 2020 - Present

- Conducting research in gradient boosting applied to predicting performance of professional golfers.

Brock University

GRADUATE TEACHING ASSISTANT

St. Catharines, ON

Jan 2020 - Present

- Taught weekly labs covering theory and examples to over 40 students in Computer Programming with Mathematics & Applied Calculus.

Royal Bank of Canada

DATA ANALYST (ANTI-MONEY LAUNDERING INSIGHTS & ANALYTICS DEPARTMENT)

Toronto, ON

May 2019 - Aug 2019

- Developed a PoC created in Python to screen high-risk Individuals based on AML regulations, the program was put into production to replace \$100,000+ per year outsourced model; reduced the possibility of false negatives by nearly 12%, while eliminating 7% of existing false positives.
- Developed a list integrity program using Python & SQL, to automatically compare individuals on sanctions lists with the RBC AML database to ensure accurate records; project estimated by IT department to cost \$400,000 if not developed within department.
- Presented projects to Chief Anti Money Laundering Officer, Head of AML RBC Europe and Asia, SVP & VP.

Canadian Tire Financial Services

DATA ANALYST (SPORTS ANALYTICS DEPARTMENT)

Oakville, ON

Sep 2018 - Dec 2018

- Created SQL queries written in SAS to add new variables to a logistic regression model calculating the probability of an athlete to place on the podium at a major event, resulting in a 10% increase in adjusted R-squared.
- Created an automated data pipeline process for the Canadian Olympic Bobsleigh Team, using Python for web scraping, SAS for data manipulation and statistical modelling, and Tableau for data visualization, processing GPS data acquired 100 times per second.
- Developed web scraping programs for the world diving & short track speed skating websites using Python and the BeautifulSoup library.

Ontario Ministry of Transportation

DATA SCIENTIST (INTERNAL CONSULTING DEPARTMENT)

St. Catharines, ON

May 2018 - Aug 2018

- Created a two-class boosted decision tree machine learning model using feature engineering to increase the accuracy of the OPS Fleet Vehicle cancellation model by greater than 20%, which was equivalent to \$1.33 million over 3 years.
- Created an anomaly detection model using Microsoft Azure Machine Learning Studio and dashboards using PowerBI to analyze pass/fail patterns and flag abnormal activity within Ontario Drivers Test Centres.

Projects

Using Machine Learning to Predict Professional Golf Performance (GitHub) (Kaggle)

UNDERGRADUATE THESIS

- Utilized Python and BeautifulSoup to scrape statistics recorded on the PGA Tour (10,000+ Kaggle downloads, #1 trending data set out of 25,000).
- Optimized Lasso, Ridge & XGBoost Regression models, as well as Logistic Regression, Decision Tree & XGBoost Classification models using Python.

Awards & Leadership

2019 **Ontario Co-op Student of the Year** (Selected out of 43,000 students), Education at Work Ontario

\$750

2020 **Ontario Graduate Scholarship**, Ontario Government

\$15,000

2020 **Canada Summer Games Research Grant**, Canada Summer Games

\$12,000

2020 **Brock University Artificial Intelligence Network**, Executive

St. Catharines, ON

2019 **RBC FutureMakers**, Event Assistant

Toronto, ON