

Brad Klassen

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[LinkedIn](#) | [GitHub](#) | [Kaggle](#) | [Twitter](#)

EDUCATION

BROCK UNIVERSITY

MSC STATISTICS

Apr 2021 | St. Catharines, ON, CA

BROCK UNIVERSITY

BSc MATHEMATICS & STATISTICS

Dec 2019 | St. Catharines, ON, CA

Business Minor

Co-op Distinction

Cum. GPA: 3.61 / 4

Major GPA Class Rank: 1st

PROJECTS

Predicting PGA Tour Performance
[\(GitHub\)](#)[\(Kaggle\)](#)

- Optimized Lasso, Ridge & XGBoost Regression models, as well as Logistic Regression, Decision Tree & XGBoost Classification models using Python.
- Utilized Python and BeautifulSoup to scrape statistics (50 million rows) recorded on the PGA Tour (#1 trending data set out of 25,000).

Predicting NHL Player Salaries

[\(GitHub\)](#)[\(Kaggle\)](#)

- Optimized LASSO, ridge, decision tree, kernel smoothing & XGBoost regression models in R to create predictive models.

Professional Golf Database [\(Kaggle\)](#)

- Utilized BeautifulSoup to create 5 web-scraping programs for PGA Tour Statistics, PGA Tour Course History & Tournament History, LPGA & OWGR.

SKILLS

TECHNICAL

- Python • R • SQL • Power BI
- Git • SAS • \LaTeX • Tableau
- MS Excel • MS Azure

EXTRACURRICULAR

- Brock University Artificial Intelligence Network - Executive
- RBC FutureMakers - Event Assistant
- Federated Health Charities - Event Assistant

EXPERIENCE

ROYAL BANK OF CANADA | DATA ANALYST

May – Aug 2019 | Anti-Money Laundering Insights & Analytics | Toronto, ON

- Developed a PoC created in Python to screen high-risk Individuals based on AML regulations, replaced \$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

Sept – Dec 2018 | Sports Analytics | Oakville, ON

- 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

May 2018 – Aug 2018 | Internal Consulting | St. Catharines, ON

- 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.

RESEARCH

BROCK UNIVERSITY | MACHINE LEARNING RESEARCH ASSISTANT

Jan 2020 - Present | St. Catharines, ON, CAN

Worked with Dr. William Marshall researching gradient boosting methods applied to ranking problems. Received \$12,000 research grant from Canada Summer Games.

AWARDS

2019	1/43,000	Ontario Co-op Student of the Year
2019	University	Highest Major Average in Department, Brock University
2020	Provincial	Ontario Graduate Scholarship
2020	National	Canada Summer Games Research Grant
2020	University	Art Bicknell Graduate Scholarship in Mathematics
2019	1/3,000	Brock University Co-op Student of the Year