Dominic Bolton

Aspiring to solve problems with big data

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Relevant Experience

Volunteer Data Analyst - Ski Jumping Canada | June 2021 - Present

Leveraged data analysis and machine learning models to provide novel insights into FIS ski jumping, with the eventual goal of securing funding from the Canadian government to fund further research into the project. I am responsible for every step of the project including data collection, validation, cleaning, exploratory analysis, feature engineering, and drawing useful conclusions from the data. My work is available for viewing on GitHub and Kaggle, links in the sidebar.

Software Development Intern - Pi Cubed Process Ltd. | May - August 2020

Developed command line and GUI python applications to communicate with and update software on an embedded microchip. I was responsible for the design, development, and testing of the applications. The chip controlled an auto-sanitizer for payment terminals, designed in response to the Covid-19 pandemic.

Projects

Kaggle Competitions

Competed in the Titanic and Housing Price ML competitions on Kaggle as part of my introduction to data science. My housing price solution landed in the top 13%, while I leveraged a gradient-descent-boosted random forest algorithm to obtain a 76% accurate prediction of the Titanic dataset.

PyGame Games

Utilized the pygame package to create various projects including air hockey and a gravity simulation. Code available on GitHub.

Website

Taught myself the basics of front end web development by creating a fully responsive, interactive website without frameworks or bootstrap. The website is complete with an arcade-style desktop game called flyswatter. Link in the sidebar, code available on GitHub

Education

University of British Columbia - BSc. Physics | Graduated June 2021

Skills

- Python (Pandas, NumPy, Matplotlib, Seaborn, Tkinter, PyGame, Beautiful Soup, Requests, etc.)
- Javascript/HTML/CSS
- C
- Experience implementing ML algorithms including: Gradient descent, linear regression, logistic regression, random forest, k-means.
- High level of education in statistics and mathematics.