Christopher Sparling

Toronto, Ontario

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christophersparling.io

Skills -

Languages R, Python, SQL, C++

Libraries tidyverse, keras, caret, scikit-learn,

numpy, scipy, pandas, beautifulsoup

Tools git, SSMS, Linux, Command Line

Familiar With Azure, classification, regression,

RESTful APIs, AWS, web development

Work Experience ————

Litens Automotive Group

Jan - Dec 2018

Business Analyst / IoT Developer – Vaughn, Ontario

- Developed PoC IoT data pipeline for predictive analytics initiative aimed at reducing machine downtime and increasing maintenance team effectiveness
- Migrated KPI visualizations from legacy system to Power BI with Azure, redesigning data storage solution to improve performance in new platform

Karat

Aug 2017 – Present

Code Grader - Remote [Seattle, Washington]

- Oversaw manual and automatic testing of 1000+ code submissions in languages such as Python, R, and SQL
- Prototyped automatic spreadsheet data entry tool using the Google Sheets API and Python

Climax Media

Sept 2016 – Dec 2016

QA Automation Co-op – Toronto, Ontario

- Planned and executed manual and automatic testing in Agile teams, utilizing Github and git to manage issues
- Tested and loaded large-scale CMS using SQL and DB2 for high-end automotive client

Concord Screen

Jan 2016 – Apr 2016

Mechanical Engineering Co-op – Newmarket, Ontario

 Operated as scientific research lead and oversaw preliminary redesign of company product, taking the project from infancy to testing various prototypes

Education -

B.ASc. - Mechatronics Engineering

2015 - 2020

Notable Projects –

Bimodal Gender Predictor Based on Personality

- Rmd notebook-based project that takes in the ~20k personality assessment responses, training and scoring various machine learning algorithms such as MDA, SVM, and kNN
- Analyzes variations in personality between men and women, and by race
- Enables users to complete quiz themselves and generate predictions from the assorted models

MMA Combo Assistant

- Built with Python, generates random sets of combos from pre-defined choices then reads them out with artificially generated speech files
- Widely configurable; everything from round length, to moves included in the set, to break length

Pokémon Dataset Analysis

- A Jupyter notebook based data analysis of hosted dataset using R's ggplot2 and additional tidyverse packages as visualization and data cleaning tools
- Explores spread of stats across the various primary and secondary types and correlation between stats
- Predicts highest stat based on type combination

Classification Algorithm Comparison

- An RMd notebook with exploratory analysis, cleaning and visualization of Wisconsin Breast Cancer [Diagnostic] Dataset
- Uses caret, corrplot, and tidyverse to compare accuracy, precision, and recall of various ML classification algorithms including Naïve Bayes, kNN, Random Forest, SVM, and Decision Tree

Independent Coursework ———

Data Scientist with R

by DataCamp Certificate #10131

Inferential Statistics Bayesian Statistics

by Mine Çetinkaya-Rundel [In progress

Big Data Specialization

by UC San Diego Staff [In progress

University of Waterloo