

Jared Arcilla

MACHINE LEARNING ENGINEER

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Education

University of Waterloo

BACHELOR OF MATHEMATICS, STATISTICS - 4TH YEAR

Waterloo, ON

Expected: August 2021

Skills

Languages Python, R, Julia, SQL

Tools PySpark, PyTorch, Numpy, Tidyverse, Base R Statistics Tools

Machine Learning Embeddings, Recommender Systems, Survey Statistics, Generalized Linear Models, Stochastic Processes

Experience

Yelp - Core M.L. Team

MACHINE LEARNING ENGINEER

San Francisco, CA

Jan. 2020 - Apr. 2020

- Headed the end-to-end project to create business embeddings for use in recommender systems and machine learning models
- Built a pipeline to input months of Yelp user session data into Word2Vec models using PySpark
- Analyzed the quality of embeddings using dimension reduction techniques such as KMeans, PCA, and TSNE
- Compared predictive ability of embeddings by applying them to XGBoost models

Deloitte - Omnia AI

DATA SCIENCE ANALYST

Ottawa, ON

Jan. 2019 - Apr. 2019

- Prototyped an algorithm that recognizes misuse of company logo on webpages using OpenCV and PyTorch leading to a contract with a Deloitte client
- Trained logistic regression models to provide insight into the conditions that lead to a consumer purchase using SAS
- Defined best practices for the clients' data scientists using the SAS tools that had just been installed

CIBC - Digital

JUNIOR ANALYST

Toronto, ON

Jan. 2018 - Apr. 2018

- Designed dashboard visualizations detailing user purchases using Tableau and SQL
- Automated a process of finding webpage ID's by building a webscraper using Python and Selenium, saving the company hundreds of labor hours

Research

Wilfrid Laurier University - Department of Mathematics

UNDERGRADUATE RESEARCH ASSISTANT

Waterloo, ON

May 2020 - Aug. 2020

- Implemented clustering algorithms such as PAM and KMeans to dissect patterns in financial stress with R
- Studied the effects of COVID-19 on the economic health of Canadians, for use in a press release
- Built classification models to recognize different levels of financial difficulty in survey participants

Projects

MusicProcessing.jl

OPEN SOURCE, DIGITAL SIGNAL PROCESSING

2020

- Restored functionality to a Julia library that performs audio processing faster than similar Python libraries

Dog Image Generator

IMAGE SYNTHESIS

2019

- Implemented computer vision algorithm that generates realistic images of dogs using PyTorch
- Referred to DCGAN and GAN research papers to improve the algorithm's effectiveness