Jared Arcilla

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SKILLS

- **Languages:** Python, R, Julia, Elisp, SAS
- **Tools:** PySpark, PyTorch, Tensorflow, Numpy, Pandas, Tidyverse, R Statistics

WORK EXPERIENCE

Yelp Jan 2020– Apr 2020
Machine Learning Engineer *San Francisco, CA*

- Headed the ***end-to-end project*** to train business embeddings for ***recommender systems*** and machine learning models
- Engineered a pipeline to transform and load ***millions of user data*** into Word2Vec models using ***Python and PySpark***
- Analyzed the quality of embeddings using ***dimension reduction techniques*** such as KMeans and TSNE

Deloitte – Omnia A.I. Jan 2019– Apr 2019
Data Science Analyst *Ottawa, ON*

- Prototyped an algorithm that recognizes misuse of company logo 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 Jan 2018 – Apr 2018
Junior Analyst *Toronto, ON*

- 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 – Dept. of Mathematics May 2020–Aug 2020
Undergraduate Research Assistant *Waterloo, ON*

- 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

EDUCATION

University of Waterloo 2016-2021
BMath, Statistics - 4th Year *Waterloo, ON*

PROJECTS

- **MusicProcessing.jl** - restored functionality to an open source Julia library that performs audio processing ***faster than Python alternatives***
- **Dog Image Generator –** implemented ***DCGAN algorithm*** using Python and Pytorch to generate realistic images of dogs
- **Pokemon Winner Predictor –** utilized decision trees to ***predict probability of winning*** based on Pokemon matchup