

# JARED ARCILLA

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## — EDUCATION

### Double Degree Program - 4th Year

Bachelor of Mathematics - University of Waterloo

Bachelor of Business Administration - Wilfrid Laurier University

## — SKILLS

Languages: Python SAS R SQL

Machine Learning: PyTorch Keras TensorFlow scikit-learn

Visualization: Tableau Matplotlib Bokeh

## — EMPLOYMENT

### Yelp - Core ML

Machine Learning Engineer

January 2020 - April 2020

- ♦ Utilized Word2Vec model to train business embeddings for internal use
- ♦ Analyzed the quality of embeddings using dimension reduction plotting
- ♦ Compared predictive ability of embeddings by applying them as input into XGBoost models

### Deloitte - Omnia AI

Data Science Analyst

Jan 2019 - Apr 2019

- ♦ Prototyped an algorithm that recognizes misuse of company logos on webpages using OpenCV and Pytorch resulting in a contract with a client
- ♦ Engineered a logistic regression model for a client to provide insight into their customers' journey
- ♦ Pitched image recognition software that converts hand-drawn diagrams to Powerpoint slides for an Omnia AI contest using Google Cloud APIs and OpenCV

## — RESEARCH

### Wilfrid Laurier University - Statistics

Undergraduate Researcher

May 2020 - Aug 2020

- ♦ Using clustering algorithm to identify patterns in financial stress
- ♦ Build classification models to recognize different levels of financial difficulty in survey participants

## — PROJECTS

### Dog Image Generator

- ♦ 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

### Sentiment Analysis for IMDB Reviews

- ♦ Designed a model to predict the sentiment of a review
- ♦ Used Keras to implement word embeddings, CNN and LSTM layers

## — INTERESTS

Clubs: KW Bonsai Society Archery Club

Hobbies: Calligraphy Chess Movie Buff