

Vedant Kulkarni

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EDUCATION

University of Waterloo

2019 – Present

Bachelor's of Mathematics in Mathematical Finance and Statistics, CGPA: 3.89

Waterloo, ON

Scholarships and Awards: *President's Scholarship of Distinction, Upper-Year Term Distinction, Dean's Honours List*

Executive Positions: *Podcast Host, Event Coordinator at UW Data Science Club*

EXPERIENCE

Deloitte Canada

May 2021 – Present

Data Science Intern

Toronto, ON

- Working with the Global Technology Services team to provide solutions for the internal operations of the firm.
- Leveraging Google's BERT and other NLP techniques for semantic analysis of textual data.

Aviva Canada

September 2020 – December 2020

Data Science Intern

Toronto, ON

- Delivered five predictive loss cost models through Feature Engineering, Selection and Hyperparameter Optimization via XGBoost and GAM which lead to a **15x performance improvement** in comparison to benchmark models.
- Implemented the functionality of splitting key model metrics categorically over all features using a Python script which **improved analysis efficiency upto 16 times**.
- Wrangled with Big Data using Pandas and Excel for by peril Exploratory Data Analysis which helped **save one month** equivalent modelling time.

UW Data Science Club

September 2020 – December 2020

Project Mentor

Waterloo, ON

- Supervised the life cycle of **four Data Science projects** including Exploratory Data Analysis, Feature Engineering, Model Building and Evaluation.
- Assisted **over 20 students** with learning Python and 5+ Data Science libraries which included NumPy, Pandas and Scikit-Learn.
- Conducted office hours and provided resources to help understand and implement **5+ Machine Learning techniques** including Neural Networks, Classification and Clustering.

PROJECTS

Ardor | *Python, Google Cloud Vision, Django*

February 2020

- Created a Django Web Application using Google Cloud's Vision API for Sentiment Analysis to give true feedback and suggestions to movies and songs by capturing user's emotions.
- Placed in the **Top 10** out of 500+ participants and 100+ teams at Hack the Valley, Toronto.

Kaggle: Student Test Score Analysis | *Pandas, Scikit-learn, Seaborn*

April 2020

- Conducted Data Analysis, Exploration and Feature Engineering on a student test score dataset and used Linear Regression to develop EdTech tools.
- Developed a Learning Management System which accurately predicts the test scores of a student out of 100 with an RMSE of 9.

Coro-nah | *Python, OpenCV, Dlib, Darknet*

March 2020

- Built the world's first and only visual cough detector by training custom image datasets through the open-source deep neural network, Darknet.
- Through facial recognition- with consent, the database provides the identified user's travel history and based on risk levels, alerts authorities to ensure checkups for extra protection.

TECHNICAL SKILLS

Languages: Python, SQL, R, HTML, CSS, MATLAB, Scheme

Technologies: XGBoost, Spark, TensorFlow, OpenCV, Dlib, MS Excel, Jira, Git, Tableau

Libraries: Numpy, Pandas, Scikit-learn, Seaborn, Matplotlib, NLTK, Gensim