

PAUL OWE

EDUCATION

B.A. Computer Science

September 2016 – June 2020*York University, Toronto, ON, Canada***Relevant Courses:** *Data mining, Machine learning, Database systems, Design and analysis of algorithms*

WORK EXPERIENCE

Research Assistant, York University

May 2020 – Present

- Conduct research with an interdisciplinary team to develop an open knowledge accelerator
- Develop social intelligence software to maximize influence by analyzing information cascades in blogosphere.

Lead Data Scientist, PharmAssess Diagnostics Corp.

March 2020 – February 2021

- Led overall data science solutions and design for securely processing PHI. The software currently serves five Canadian pharmacies in Saskatchewan - \$40,000 funding provided by Amazon and McKesson
- Built a NLP component to improve user experience. Deployed using Amazon Web Services (Comprehend Medical).

Analytics Intern, KPMG Data Analytics Virtual Internship

August 2019 – April 2020

- Worked closely with business client to classify leads so that their team focuses on the most valuable customers
- Prepared a detailed approach for data preprocessing, feature engineering, modelling and reporting
- Utilized Tableau to develop dashboards, present insights and suggest recommendations

ACADEMIC PROJECTS

Globally Networked Learning Environments

June 2019 – December 2020

- Built a flask application for displaying location-based resources on a map. The app is used to facilitate intercultural learning between 3 institutions: York University, Tecnológico de Monterrey and Universidad San Francisco de Quito
- Deployed application in a hybrid cloud environment - Used Google Cloud Platform and Heroku Cloud Platform

Natural Language Processing

January 2020 – April 2020

- Predicted sentiment of Yelp Business Reviews with 91% accuracy by applying supervised machine learning models on a large review dataset – Used the bag-of-words model for text representation
- Conducted multiple experiments and developed learning curves to diagnose and monitor model learning performance over time

INDEPENDENT PROJECTS

Social Network Analysis

December 2019 – January 2020

- Performed social network analysis to understand the structural properties of networks on twitter
- Utilized twitter's REST and Streaming APIs to gather data and model twitter conversations
- Created a dynamic map to visualize location of tweets and enhance comprehensibility of analysis

Voice Enabled Banking Assistant

January 2020

- Collaborated in a group of three to create a voice application for Google Assistant and Alexa to heighten a user's digital banking experience at the University of Toronto Hackathon VII over the course of two days. Used Voiceflow and VoiceXML to specify voice responses and dialogs

SKILLS

Languages: Python, JavaScript, SQL || Web frameworks: Django, Flask || Cloud: Amazon Web Services, Google Cloud ||Software: MS Excel, JupyterLab, Weka, Docker, Tableau || Software management: GitHub, Jira, Docker

AWARDS AND CERTIFICATES

- **Award:** \$30,000 AWS Activate credits **September 2020**
- **Certificate:** Machine Learning Certification (Stanford University on Coursera) **August 2020**
- **Certificate:** KPMG Data Analytics Consulting Virtual Internship **April 2020**
- **Award:** 1st Place Startup Team (Bergeron Entrepreneurs in Science and Tech.) **November 2019**

VOLUNTEERING EXPERIENCE

- **Volunteer:** Raised \$10,000 through crowd funding for the purchase of educational materials and classroom renovation of a public primary school in Akorlikope, Ghana **July 2016**