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REFERENCES

Available upon
request

EXPERIENCE

Data Analyst, Strategic Insights Unit, Destination Ontario

Toronto, ON – June, 2018 - September, 2018

- Provide analysis on tourism partner marketing performance using Python and Power BI
- Lead an organization-wide strategic review in data and reporting practices to centralize data storage, provide better goal-oriented analysis, and build analytic capacity through training

Data Scientist, Digital Team, Ontario Liberal Party

Toronto, ON – January, 2018 - June, 2018

- The main data scientist for the Digital team in the party's 2018 re-election campaign
- Construct models to find in-depth insights into the performance of digital media content by extracting features such as photo colours hues, objects, and text content
- Incorporate research learnings into an internal web app built in Flask to assist digital marketing managers with fine-tuning content
- Create a machine learning pipeline to analyze political conversations for bot activity

Volunteer Tech Development Lead, Open Democracy Project

Toronto, ON — June, 2017 - Present

- Lead the tech team for the non-profit's flagship product, Democracy Kit, a platform to give resources and training for people running for municipal office for the first time
- Building a prototype of the organization's online course platform on top of the Open edX codebase using Django

Research Analyst Intern, Ministry of Advanced Education and Skills Development

Toronto, ON – May, 2017 – August, 2017

- Complete and present statistical analysis to influence policy development concerning the government's job training and apprenticeship programs using Python, Excel and Tableau
- Design web apps and tools to make the ministry's open data initiatives more accessible to everyday citizens, in addition to internal research use, using Node.js, MySQL, and Plotly

Marketing Data Analyst, Cabinet Office, Government of Ontario

Toronto, ON – January, 2016 – December, 2016

- Conduct numerous research projects using government social media data to create tools and best practices for the Cabinet Office team using Excel and VBA
- Help strategize, develop and curate content for the Ontario Government's digital marketing initiatives as part of the internal team, and as part of a government-wide innovation group

RESEARCH

Statistical Research Assistant

Visual Psychophysics Lab, University of Plymouth & Neurophilosophy Lab, McGill University

- Abstract: This study seeks to gain insight into Dual Process theory through the ability for study participants to recognize complex emotions through facial expressions
- Conduct statistical modeling and exploratory analysis using the Python scientific computing stack (pandas, numpy, matplotlib, statsmodels).

SIDE PROJECTS

- **sg2im Demo (In Progress)** - Developing a web app built in React and Flask allowing users to build photorealistic images from scene graphs using Google's sg2im neural network
- **Chow Test Module** - Built the first Python package for calculating Chow tests to measure structural breaks in time series data

EDUCATION

Candidate for Honours Bachelors of Science and Business

University of Waterloo, Waterloo, ON — Sept, 2014 – December, 2019

- The degree provides a strong background in scientific research and analytic skills overlaid with a business focused mindset including studies in biostatistics and econometrics
- Relevant courses: Statistics for Economists, Computational Biology, Technology Development

TECHNICAL SKILLS

- Languages such as Python, Javascript, VBA, Bash
- Web frameworks like Django, Flask, React, Node
- Databases like SQLite, MySQL, MongoDB, Microsoft Access, Fusion Tables
- Libraries such as sci-kit learn, gensim, scipy, statsmodels, Plotly, D3.js, Selenium
- BI and spatial tools like Tableau, Power BI, Mapbox, CARTO, and QGIS