

Work Experience

Senior Data Scientist | Later | Since August 2023

- > Improved the influencer marketplace search model (**doc2vec** + **Hugging-Face**) allowing customers to find people through a combination of natural language and image prompts increasing the number of user search queries by 15%
- > Applied **convex optimization** methods to identify best allocation of client marketing spend on influencers; pending production
- > Developed **proprietary** method to detect trending hashtags
- > Topic modelling via an ensemble of **Latent Dirichlet Allocation** models

Data Scientist | Later | August 2021 - July 2023

- > Contributed during due diligence process for **\$200M** acquisition
- > **Hired** data team including manager, analysts, and interns
- > Launched hashtag suggestions model with **10k+ daily invocations**
- > Deployed models via **Docker**, python libraries, and **Sagemaker**
- > Productionized caption based suggestions model (**YAKE** + **word2vec**)

Data Analyst | Later | July 2020 - July 2021

- > Company wide financial and customer **forecasting** (ARIMA, **Prophet**)
- > Primary source for validation on **A/B testing** and experimental design
- > **RShiny** and **Flask** applications for internal machine learning servicing
- > Analyzed customer behaviors affecting onboarding (setup, aha, habit moments), proposed changes, and cut new customer churn by 17%

Projects & Publications

Deep Learning w/ Functional Inputs - [View Publication](#)

- > A novel contribution to advance neural network architectures
- > Published by Journal of Computational & Graphical Statistics (H-Index: 94)
- > Published: July 2022; Citations: 17

FuncNN - [View R Package](#)

- > An R Package developed on top of the Tensorflow architecture
- > Released: September 2020; Downloads: 11000+

NLP Begin - [View Website](#)

- > Meant as a public resource; this is an exhaustive primer on all classic + modern natural language processing (NLP) techniques
- > A completely solo undertaking; written in JS React

AstroML - [View Project](#)

- > A full-stack effort to create an ML based finance application
- > Took care of front-end, back-end, design, model deployment, etc.
- > Currently offline but you can view a summary in the link above

Education

Simon Fraser University
MSc. Statistics
GPA: 94%; April 2020

Simon Fraser University
BSc. Honours Statistics
UGPA: 89%; April 2018

Amazon Web Services
Machine Learning Specialty
April 2022

Skills

Scripting

R, Python, SQL, Ruby, HTML, CSS, JavaScript, MATLAB, \LaTeX

Cloud

AWS (SageMaker, Lambda, S3, etc.), Google Cloud (Gemini, BQ, GCE, etc.), Git, dbt, Jupyter, Spark

Tools

Mode, Tableau, Google Data Studio, Amplitude, Notion, Asana, Jira, Zendesk

Frameworks

Tensorflow/Keras, Torch, Flask, React, Sinatra, Gensim, Hugging-Face, Dplyr, Docker, RShiny

Awards

Top Statistical Research Award
Statistical Society of Canada
May 2020

Graduate Researchship
Dept. of Statistics @ SFU
May 2020 | \$6500

Graduate Fellowship
Dept. of Statistics @ SFU
Jan 2020 | \$6500

Big Data Graduate Scholarship
Dept. of Computer Science @ SFU
Sep 2019 | \$6500

KEY Big Data USRA
Dept. of Computer Science @ SFU
May 2018 | \$6000