

EDUCATION

University of Toronto

Honours Bachelor of Science: Computer Science & Statistics

Courses

- Neural Networks and Deep Learning
- Design and Analysis of Experiments
- Software Design
- Linear Algebra
- Machine Learning
- Survey, Sampling and Observational Data in Statistics
- Methods of Data Analysis
- Probability and Statistics

PROFESSIONAL EXPERIENCE

Software Developer

Distrotek

04/2022 - Present

Front end web development lab

Responsibilities and Achievements

- Working with a variety of front-end programming languages such as HTML and CSS to develop interactive and engaging websites for clients and consumers.
- Using databases to derive data insights for strategic decision-making and project planning.
- Communicate with clients to determine the best design and implementation approach on a case by case basis.

Data Analyst

Data Glacier

06/2021 - 10/2021

Data Lab

Responsibilities and Achievements

- Collected, monitored and analyzed big data to determine sales trends for clients and their organizations
- Developed visuals for big data using data visualization tools such as R and Seaborn
- Developed predictive models for real estate trends using Scikit-Learn
- Deployed machine learning models to industry using Flask

RESEARCH PROJECTS

Statistical Analysis of Transportational Methods of Students at the University of Toronto

Collaborated with a team of researchers to conduct a study on preferred methods of transportation for university students. Gathered and analyzed data to prepare for a formal report and presentation, including data visuals.

Experimental Analysis of Variables Impacting Preparation Time of Rice

Collaborated with a team of researchers and data scientists to determine the variables that impact the total cooking time of rice. Gathered experimental data to analyze and visually present using R.

SKILLS

Collaboration

Communication

Agile Methodology

Problem Solving

Time Management

Initiative

Analytical Thinking

PERSONAL PROJECTS

Playoffs Prediction Model

- Used Selenium in Python to scrape 29 years-worth of NBA game statistics.
- Cleaned data using Pandas libraries.
- Used Scikit-Learn logistic regression libraries to train the model and achieve almost 80% accuracy on over 100 test cases.

Convolutional Neural Network for Image Matching

- Designed and built a convolutional neural network (CNN) to predict similarities of images of pair-wise objects to detect, using collected crowdsourced data as input.
- Built multiple networks to analyze differences in predictions based on number of channels, layers, kernel sizes, etc.
- Batch training and optimization implemented.

Text Denoising Autoencoder for News Headlines

- Advanced use of deep learning on a natural language processing task involving news headlines.
- Uses Recurrent Neural Networks (RNNs), and autoencoder and decoder, word embeddings, and teacher-forcing methods to learn from hundreds of thousands of news headlines and generates realistic headlines as outputs.

PROGRAMMING LANGUAGES

Python

Full Professional Proficiency

HTML

Full Professional Proficiency

R and R Studio

Full Professional Proficiency

C#

Full Professional Proficiency

Java

Professional Working Proficiency

TECHNICAL FRAMEWORKS & SKILLS

TensorFlow

PyTorch

Scikit-Learn

Machine Learning and Neural Networks

Web Scrapping

Data Analysis and Cleaning