ELIJAH CAVAN, MSC.

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♥ Toronto, Canada

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PROFESSIONAL EXPERIENCE

Sports Data Science Intern

Stathletes & Canada Soccer

Oct 2021 - Ongoing

Burnaby, BC

Technologies: | Python | | R | | Huroku | | Git

- Create application to facilitate scouting and roster management
- Build metrics and models using player tracking data
- Communicate results to various team leaders

Data Scientist

SynaptIQ

March 2020 - Sept 2021

Waterloo, ON

Technologies: Python

React JS Django Huroku

Git

- Research and experiment with key metrics to present to clients
- Calculate and store these metrics to the Database (Diango)
- Create visualizations of the key metrics and implement these visualiations on the Client side of the application
- Develop and test models to predict future test performance
- Implement and test NLP model to summarize text and create multiple choice questions

Jr. Data Scientist

Backr

M October 2020 - April 2021

♥ Kingston, ON

Technologies: Python GCP

SQL Data Studio

- Transfer data from Google Cloud Storage to Google Big Query
- Query data from Google Cloud Storage using Google Big Query
- Create and present dashboards to visualize key metrics for clients
- Create prioritization algorithms to sequence client data
- Develop and test ML/Neural Net to predict client performance

Data Analyst

Loblaws Companies Limited

April 2020 - April 2021

Prampton, ON

Technologies: Python

SAP **SQL**

Microsoft Excel

- Query data from SQL database and merge relevant tables
- Automate business tasks through python scripts and test outputs
- Examples: send emails to superiors using python, merge xls. documents from shared drive, streamline xls. documents using updated data
- Present project updates to business leaders
- Ensure data quality and triage data issues to the correct department

EDUCATION

Bsc. Mathematical Physics

University of Waterloo

Sept 2013 - Mar 2017

Specialization: Astrophysics

Msc. Mathematics

Wilfrid Laurier University

Sept 2017 - Jan 2019

Specialization: Dynamical Systems

Quantum Stream

Creative Destructive Lab

July 2021 - Sept 2021

Specialization: Quantum Computing

Msc. Statistics

Statistical Anlaysis

MongoDB

Simon Fraser University

Sept 2021 -

Specialization: Sports Analytics

TECHNICAL SKILLS

Python	••••
Maple	••••
SQL	••••
R	••••
JavaScript	••••
Spark	••••
Excel	••••
GCP	••••
Machine Learning	••••
Mathematical Modelling	••••
Data Cleaning	••••
Flask	••••

TOP PERSONAL PROJECTS

Note: The repositories for my major projects are accessible through my GitHub or my Portfolio Website.

Big Data Bowl

NFL Competition

Sept 2021

Burnaby, BC

Pvthon

PyTorch

R

Technologies: Machine Learning

Big Data

- Normalized tracking data and added new features
- Developed ML models to predict conditional density of yards remaining
- Evaluate and compare players and teams

NFL Logistic Regression Model

Kaggle Project

December 2020

♥ Toronto, ON

Technologies: Python

SKlearn Pymc3

- Developed classification model to predict first downs based on a number of features
- created multiple models: Bayesian logistic regression, PyTorch Model, LGB model, Decesion tree model
- Assessed the accuracy of each model (95% accuracy for Bayesian model)

Quantum Computing Hackathon & Cohort Projects

Creative Destruction Lab

July 2021

♥ Toronto, ON

Technologies: Python | Qiskit

Julia | NLP

Monte Carlo

- Compared classical algorithms to the quantum counter part
- Found solutions to optimization problems (NP hard) using Deep Learning & ML; studied the quantum advantage of quantum computers
- Focused on both technical and business aspects for each project
- Finished top 3 in 3/4 Cohort projects. Finished 4th for the Hackathon

Animal Classification Model

Udemy Project

April 2021

Prampton, ON

Technologies: Flask

Keras

Tensorflow

Huroku

- Developed deep learning classification model hosted on Huroku
- Upload an image and the model returns a percentage for each prediction

LIFE QUOTE

"I was born not knowing and have had only a little time to change that here and there." - Richard Feynman

EXTRACURRICULAR

The Eli Cavan Project

Podcast

₩ June 2020

♥ Toronto, ON

Medium Contributor

Blog

♥ Toronto, ON

RECOMMENDATIONS

- "...is never daunted by new challenges and uses his creativity and resourcefulness to accomplish his tasks"
- "...has stood out with his first-class creative-thinking, attention-to-detail, and productivity"
- "...strong technical skills, excellent communication abilities, and overall strong work ethic"
- "...He is extremely dedicated, passionate, and intelligent... Elijah's individual work has been well recognized around the world"
- "...went above and beyond expectations and was an excellent addition to our team."
- "He has an uncanny ability to map the world into mathematics and code, leveraging a multidisciplinary toolbox to overcome barriers"

AWARDS

- Laurier Graduate Scholarship
- Tom Bertzi Campus Citizen Award Nominee
- Simon Fraser Graduate Scholarship
- 3 time Hackathon award winner
- Laurier Work-Study program internship
- Teaching award from Princeton Review