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### **EDUCATION**

May 2020 •

**B.Sc. in Computer Science** at University of British Columbia

♥ Vancouver

Focus on Machine Learning

Notable courses: Intelligent Systems/AI, Machine Learning, Advanced Database, Computer Vision, Software Engineering, Statistical Learning.



#### WORK

Django,HTML/CSS, Python ML libraries

Jan 2020-Present • RESEARCH ASSISTANT

Vancouver

• Currently working with Ph.D student Hedayat Zarkoob and Prof. Kevin Leyton Brown on the second version of MTA - a software system for partially automated peer grading. MTA is currently being used to teach

courses in UBC and Princeton University. • Link to the previous MTA paper:

https://www.cs.ubc.ca/~jrwright/wright2015mechanical.pdf

at Laboratory for Computational Intelligence (LCI) (UBC)

Node.js, Firebase, React, HTML/CSS

#### April 2019-Present • CO-FOUNDER

Vancouver

at Edutechs.org

• Edutech is a free online educational platform which allows teachers and students to reach out to each other and make constraints such as location and space a thing of the past.

• Our goal is to transform the entire education industry in Bangladesh.

Jan 2019 - Aug Scikit-learn. XGBoost,SOL. matplotlib,PySpark, Docker, MS Azure

### **DATA SCIENTIST**

▼ Toronto

at ScotiaBank(Artificial Intelligence and Machine Learning Team)

• Worked in an Agile team for Scotiabank's global fraud detection Al software. Applied ensemble methods such as XGBoost for prediction and inference.

- Performed sensitivity analysis and hyperparameter tuning to improve model performance.
- · Designed and code reviewed a ML model which accurately monitored customer consent from speech to text transcriptions. This model improved accuracy by 25% from the previous version.

Jan 2018 - • Aug

Django, Pandas, Scikit-

learn,PostgreSQL

Azure,Github,Linux

HTML/CSS/JS,

matplotlib,MS

#### **SCIENTIFIC SOFTWARE DEVELOPER**

Vancouver

at BC Cancer Research Centre (Sohrab Shah Lab)

• Worked on a machine learning research project for integrating genomic data with imaging data of cancer cells to classify dead/ alive cells. The classifier resulted in an prediction accuracy of 84%.

- Performed data analysis and implemented machine learning algorithms for cancer cell clustering problems and Microsoft hololens cell visualization app using Python libraries.
- Implemented, extended and documented python APIs and REST interfaces.



#### **RELEVANT PROJECTS**

June 2018 •

### PIMS BC DATA SCIENCE NLP CAPSTONE PROJECT

Language: Python Frameworks: Pandas, Scikit Learn, TextBlob, spaCy

- Worked in a team of 10 to determine intent and create knowledge base from live chat transcripts. The data set was provided by Comm100 which includes online chat sessions.
- The goal of the project was to cluster/correlate chat sessions and build a knowledge base in an automated way using mathematical models which we successfully achieved.

## **Programming Languages**

Competent (2 years) Experience: Scikit-learn, Machine learning algorithms, Django- UBC EOSC website, Rhoads, NLP

Competent (1 year) Experience: Restaurant App, Advanced Calculator, DNS

Unix/bash Competent (2 years)

Server, FTP Client, Gym Database using JDBC

SOL Competent (1 year) Experience: GYM Database, UBC EOSC website

Basic (8 months) Experience: FTP Server, x86 implementation

# Web development and Design

HTML and CSS -Competent(4 months) Projects: UBC Eosc website, Rhoads website

TypeScript -Basic (3 months) Projects: Insight UBC (course project)

Django -Proficient (8 months) Projects: UBC EOSC website, Rhoads website



- Python scikit-learn, Pandas, matplotlib
- PySpark
- Xgboost
- TensorFlow\*
- Microsoft Azure

\*Currently learning for project



- Github
- Docker
- Jira



Scalable whole genome sequencing of 40,000 single cells identifies stochastic aneuploidies, genome replication states and clonal repertoires.

https://www.biorxiv.org/content/early/2018/09/13/411058