

T: 604.822.9677 | F: 604.822.9676 | science.coop@ubc.ca | www.sciencecoop.ubc.ca







https://nafabrar.github.io https://github.com/nafabrar

+1 778-929-4772

nafis.abrar@alumni.ubc.ca

EDUCATION

4th year

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

Jan 2019-Present

DATA SCIENTIST

▼ Toronto

at ScotiaBank (Artificial Intelligence and Machine Learning Team)

Jan 2018 - 0 Aua 2018

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.

May 2017 -Sept 2017

FULL STACK WEB-DEVELOPER

Vancouver

at UBC EOSC (Earth and Ocean Sciences)

- Contributed to the backend of the UBC EOSC website by creating models, views and forms using Django.
- Exported CSV files from older Drupal7 UBC website and wrote Python scripts that automatically created objects in the new Django website using the CSV data. This resulted in loading 1000+ records in the new website.



RELEVANT PROJECTS

June 2018

PIMS BC DATA SCIENCE NLP CAPSTONE PROJECT (COMM100)

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 or correlate chat sessions and build a knowledge base in an automated way using mathematical models.

http://workshop.bcdata.ca/2018/finalpres/comm100-slides.

October-Present Personal Projects

MACHINE LEARNING/DATA SCIENCE

Language: Python Frameworks: Pandas, Scikit Learn

- Implemented supervised and unsupervised machine learning algorithms with Python (pandas, numpy). The following algorithms are implemented: Linear Regression,Kmeans, KNN, RBF-Kernels and Stochastic Gradient Descent.
- Built a sentiment analyser that extracts data from Twitter given a topic. The data from the Twitter API is then processed to give a result of how people feel about the user provided topic.
- Worked on computer vision projects such as scene recognition with bag of words, face detection in a scaled representation, local invariant features and RANSAC.

Programming Languages

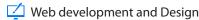
Competent (1 year) Projects: Restaurant App, Advanced Calculator, DNS Server, FTP Client, Gym Database using JDBC

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

Python Competent (2 years) Projects: Machine learning algorithms, Django-UBC EOSC website, Rhoads, NLP

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

Unix/bash Competent(1 year)



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

TypeScript* -Basic (3 months) Projects: Insight UBC

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



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

*Current learning for work project



- Github
- Docker
- Jira



Publication

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