NAFIS ABRAR

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https://github.com/nafabrar
GitHub

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📖 EDUCATION

May 2020

B.Sc. in Computer Science
♥ Vancouver

at University of British Columbia

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

💼 WORK

Jan 2020-Present
Django,HTML/CSS,
Python ML libraries

RESEARCH ASSISTANT
♥ Vancouver

at Laboratory for Computational Intelligence (LCI) (UBC)

• 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

Jan 2020-Present
Node.js, Firebase,
React, HTML/CSS

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,SQL,
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 AI
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
HTML/CSS/JS,
matplotlib,MS
Azure,Github,Linux

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 holo-
lens 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

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

• **Java** — Competent (1 year)
Experience : Restaurant App, Advanced Calculator, DNS
Server, FTP Client, Gym Database using JDBC

• **Unix/bash** — Competent (2 years)

• **SQL** — Competent (1 year)
Experience : GYM Database, UBC EOSC website
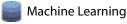
• **C** — Basic (8 months)
Experience : FTP Server , x86 implementation

🖥 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

🗄 Machine Learning

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

*Currently learning for project

♾ Dev-ops

• 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