NAFIS ABRAR

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📖 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 2018 - Aug 2018

SCIENTIFIC SOFTWARE DEVELOPER
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.

May 2017 - Sept 2017

FULL STACK WEB-DEVELOPER
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.

October-November 2017 Personal Project

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,K-means, 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.

August 2017 Personal Project

RHOADS- A BLOG WEBSITE
Languages: Python(Django Framework), HTML, CSS, JS

• Rhoads is an interactive blog website that allows users to signup and post their blogs. The data is stored in SQLite database. The website uses a token system to verify email during user signup. Users can also view other users blogs as guests.
• The front-end uses HTML, CSS (Bootstrap) and JavaScript. A website preview is available on my Github account.

</> Programming Languages

• Java   Competent (2 years)
Projects : Restaurant App, Advanced Calculator, DNS Server, FTP Client, Gym Database using JDBC

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

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

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

• Unix/bash   Competent(1 year)

🖥 Web development and Design

• 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

🗄 Machine Learning/Data Science

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

*Currently Learning