NAFIS ABRAR

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

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, Internet Computing, Software Engineering, Statistical Learning.

WORK

Jan 2018 - Present

SCIENTIFIC SOFTWARE DEVELOPER
at BC Cancer Research Centre (Sohrab Shah Lab)

• Improved the BCCRC software infrastructure to support research tasks by implementing new functionalities using Django.
• Performed data analysis and implemented machine learning algorithms for cancer cell classification problems using Python libraries.
• Implemented, extended and documented python APIs and REST interfaces.
• Modified and maintained existing databases and web front end.

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-Present

PIMS BC DATA SCIENCE NLP CAPSTONE PROJECT (COMM100)
Language: Python Frameworks: Pandas, Scikit Learn,TextBlob,NLTK

• Currently working in a team of 10 to determine intent and create knowledge base from live chat transcripts. The data set is provided by Comm100 which includes online chat sessions.
• The goal of the project is 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/node.js* - Basic (2 months)
  Projects : Insight UBC
- Django - Proficient (8 months)
  Projects : UBC EOSC website , Rhoads website

Machine Learning/Data Science

- Python - scikit-learn, Pandas, matplotlib
  Projects : Image classifier and Stock Price Predictor
- TensorFlow*
- Microsoft Azure

*Currently Learning