Asif Hasan

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**Data/Computing Skills**

* Data Extraction
* Data Cleansing
* Data Visualization
* Data Manipulation
* Data Modeling
* Data Analysis
* Data Structures
* Object-oriented Design
* Machine Learning Algorithms
* Model Optimization
* Reports & Documentation
* Web Scraping Techniques
* Web Designing
* Using APIs
* Git

**Education**

Data Science, 3rd year 2020 - Present

Faculty of Science, Simon Fraser University, Burnaby, BC

**Project Experience**

Data Acquisition, Management and Visualization Jan. 2022 – Apr. 2022

STAT 240 – Introduction to Data Science, SFU

Database Management Systems Jan. 2022 – Apr. 2022

CMPT 354 – Database Systems I, SFU

Data Wrangling, Transformation, Visualization and Summary Aug. 2021 – Dec. 2021

STAT 260 & 261 – Introductory R foe Data Science & Laboratory, SFU

Marketing Research and Plan Aug. 2021 – Dec. 2021

BUS 343 – Introduction to Marketing, SFU

* Conducted market research for a non-alcoholic whiskey mix to be marketed in Canada, my task was to identify the market size and break-even point for the product which taught me to effectively communicate my decisions with rationality to my teammates. [Nov. 2021]

Supervised Machine Learning Algorithms in Python May 2021 – Jul. 2021

CMPT 310 – Artificial Intelligence Survey, SFU

* Predict Students’ Math Grades - Supervised Machine Learning
* Language: Python
* Packages: scikit-learn, pandas, NumPy, Matplotlib
* Models: Linear Regression, MLP Regression, SVM Regression, Bagging Regression, Radom Forest Regression
* Report: Random Forest Regression and SVM Regression predicts student’s grades with highest accuracy, 87% and 84% respectively.
* Identify Augmented Cats & Dogs Images - Supervised Machine Learning Aug. 2021
* Language: Python
* Packages: scikit-learn, pandas, NumPy, Matplotlib
* Models: Linear SVM and RBF SVM Classification, Decision Tree Classification, Hard and Soft Voting Classification, Random Forest Classification
* Report:

Front-End Web Design Jan. 2021 – Apr.2021

CMPT 218 – Special Topics in Computer Science, SFU

* Website to Track Self-reported Covid-19 Cases
* Language
* Designed a website to self-report Covid-19 cases using HTML, CSS, and JavaScript that shows the information and location (using Google Maps API) of each case reported. Additionally, modified the code using Bootstrap and TypeScript which made it more readable, shareable and time efficient to implement. [Mar. 2021]
* Front-end Website to Generate Grades Histogram and Stats from CSV file

Data Structures in Java Aug. 2020 – Dec. 2020

CMPT 225 – Data Structures and Programing, SFU

Object-Oriented Design in C/C++ Aug. 2020 – Dec. 2020

CMPT 125 & 127 – Introduction to Computer Science and Programing & Laboratory

Arduino, Breadboard Circuits and Soldering Jan. 2020 – Apr. 2020

ENSC 100 & PHYS 1141 – Engineering, Science and Society & Studio Physics Laboratory

**Project Experience (Cont’d)**

R Studio: BaseR, tidyverse, ggplot2,

dplyr, forcats, tidyr, stringr,

purrr, lubridate

Python: SQLite, scikit-learn, pandas,

NumPy, Matplotlib, TensorFlow

#word-cloud placeholder

Java: HTML, CSS, Bootstrap, JavaScript,

TypeScript

C/C++: Data Structures, OOP/OOD

MS: Word, Excel, PowerPoint

Other: LaTeX

**Additional Skills**

* Research & Analytical Skills
* Team/Individual Performer
* Attention to detail oriented
* Organised task planner
* Active Listener
* Communication skills that reflect Emotional Intelligence

**Interests**

* Cooking (Bengali)
* Hiking
* Music (Ukelele & Mixing – rekordbox)
* Fashion & Clothing