

# Introduction to Data Science CS842 - University of Regina

## Self-contained Setup Guide

on

*Mortality Prediction for COVID-19 and Organ Dysfunction patients*

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## SETUP GUIDE

### To run Project

Analyst and developers can run code on the computer by following steps:

- 1) Download [Google Chrome Browser](#) and install it.
- 2) Install [python](#).
- 3) Download and Install [Jupyter Lab](#).
- 4) Open Command prompt/Terminal, and go to the home directory of the project.
- 5) Run the following command to install all the necessary libraries.

**pip install -r requirements.txt**

- 6) Run this command to open Jupyter Notebook:

**Jupyter lab**

- 7) By default it will start jupyter lab in default browser. If it does not open then you can find url in the command prompt/Terminal. By default it will be <http://localhost:8888/lab>.
- 8) On the left panel, open the code directory of the project and there you can open and run required jupyter notebook.
- 9) After running notebooks, models will be generated as a pickle(.pkl) for classification and normalization scaler, and the .hdf5 file will be generated for neural network model for the regression.
- 10) To build the Flask Application, download [Visual Studio Code](#) and open main.py file.
- 11) Import all model files (.pkl and .hdf5) to 'model' folder, and follow the steps below to run the flask application.

### To run Flask Application

Stakeholder can run flask app on the computer by following steps:

- 1) Download [Google Chrome Browser](#) and install it.
- 2) Install [python](#).
- 3) Open Command prompt/Terminal, and go to the 'flask application' folder of the project.
- 4) Run the following command to install all the necessary libraries.

**pip install -r requirements.txt**

- 5) Run following command to set environment variable FLASK\_APP to our application. Follow this [link](#) to get commands based on your Operating system. For Windows command will be:

**set FLASK\_APP=main**

- 6) Run command to run the application

**flask run**

- 7) Open any web browser (preferred google chrome) and go to url : <http://127.0.0.1:5000/>