Instructions for Running the MATLAB Regression (BE1500) Project

These instructions assume that the user has basic computer skills.
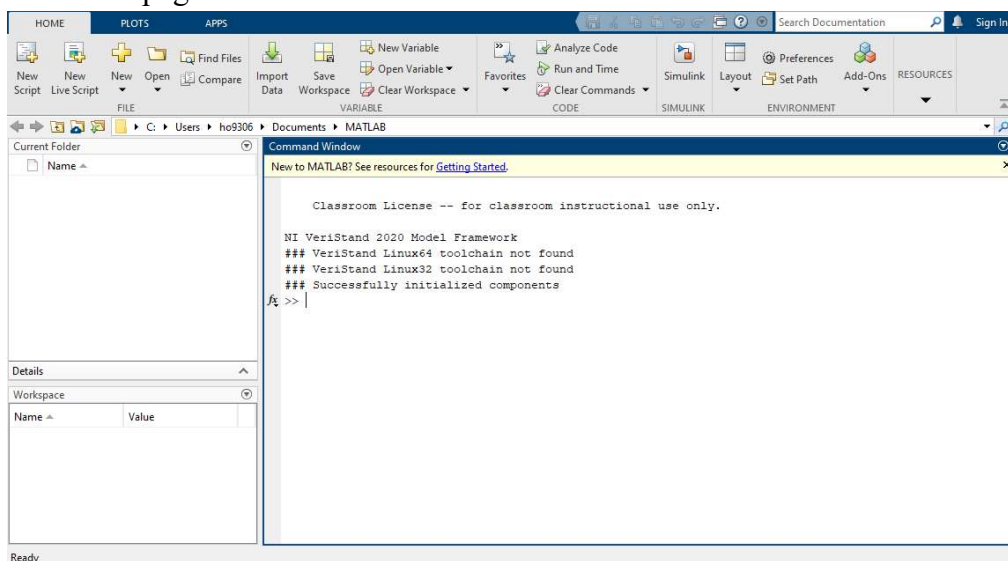
1. Download the Project Files

1. Download the "MATLAB_Regression_Project_BE1500.zip" folder from the provided source or the email you received, and then unzip the file by extracting all the content.
2. Save the downloaded/extracted folder to a convenient location on your computer.

2. Open MATLAB

1. Open MATLAB by either:
   a. Searching for "MATLAB" in the search bar and selecting it. You may buy it or use a virtual lab.
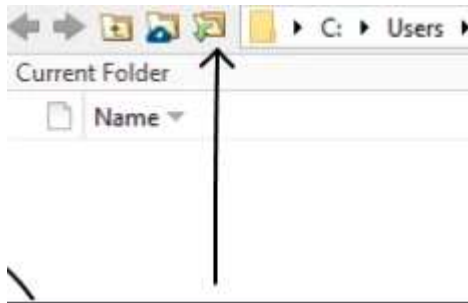   b. Launching the MATLAB application directly from your desktop or start menu.

2. The MATLAB icon looks like this:
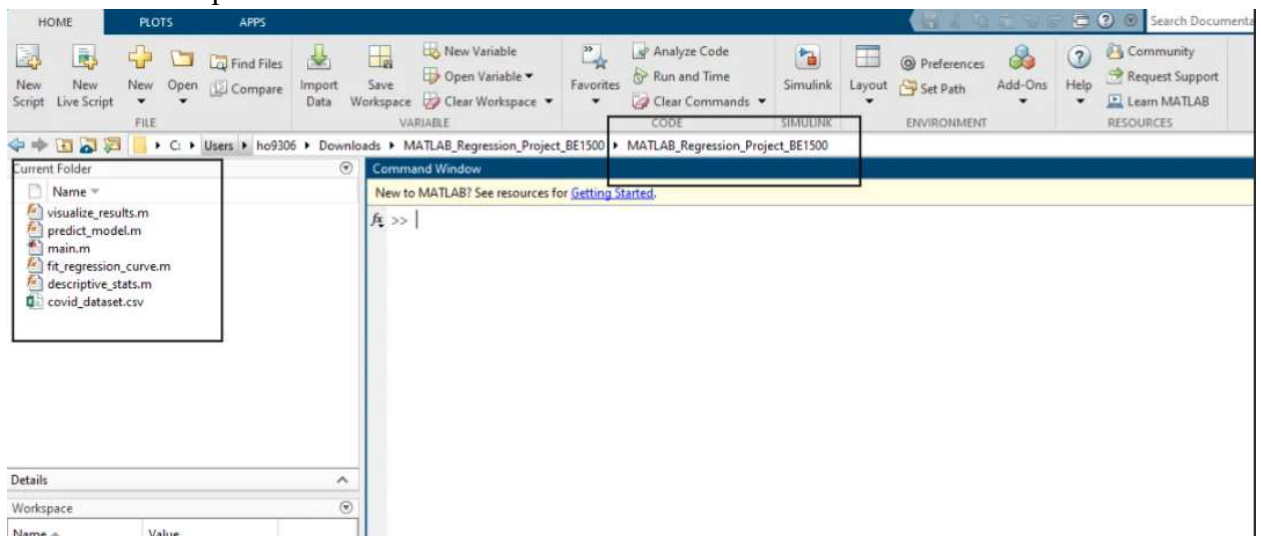3. The home page of MATLAB is shown below.

3. Load the Project Files into MATLAB
1. Once MATLAB is open, navigate to the toolbar and click on the "Current Folder" panel.

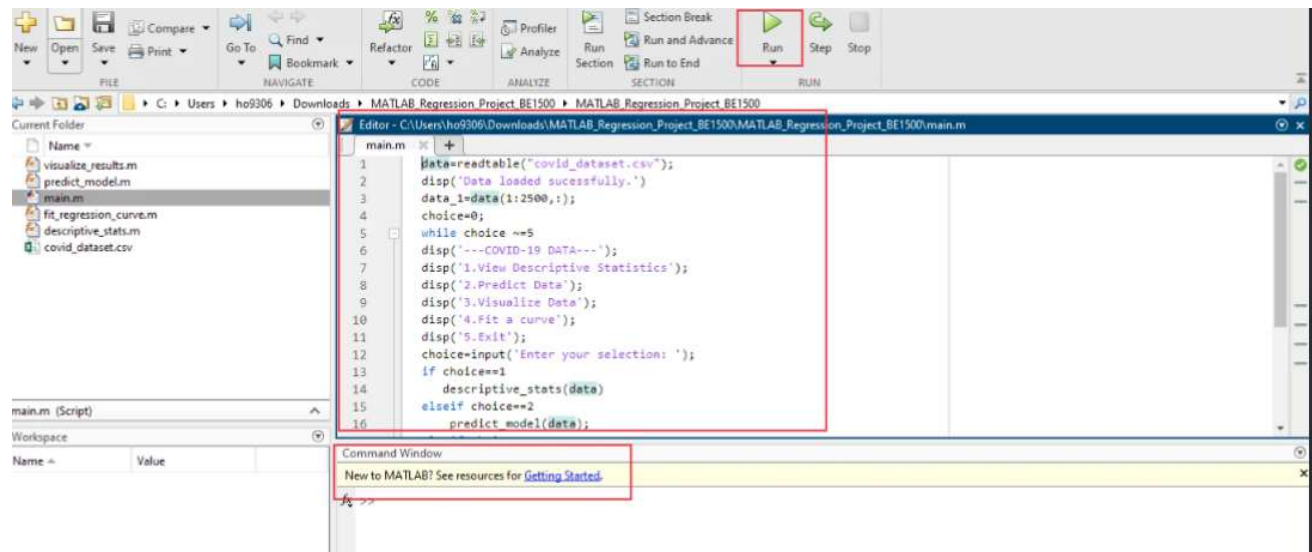2. Click the "Open Folder" icon (the icon with a folder symbol) to browse and load your project folder.

3. In the file dialog box that appears, click on the folder "MATLAB_Regression_Project_BE1500" that you downloaded or extracted.
4. Click "Select Folder" to load the project files into MATLAB.
5. The project files should appear in the "Current Folder" panel. If the files do not appear, repeat this step 1-4.
6. After you load the folder, you will some files under current folder, and current folder should look the picture below.
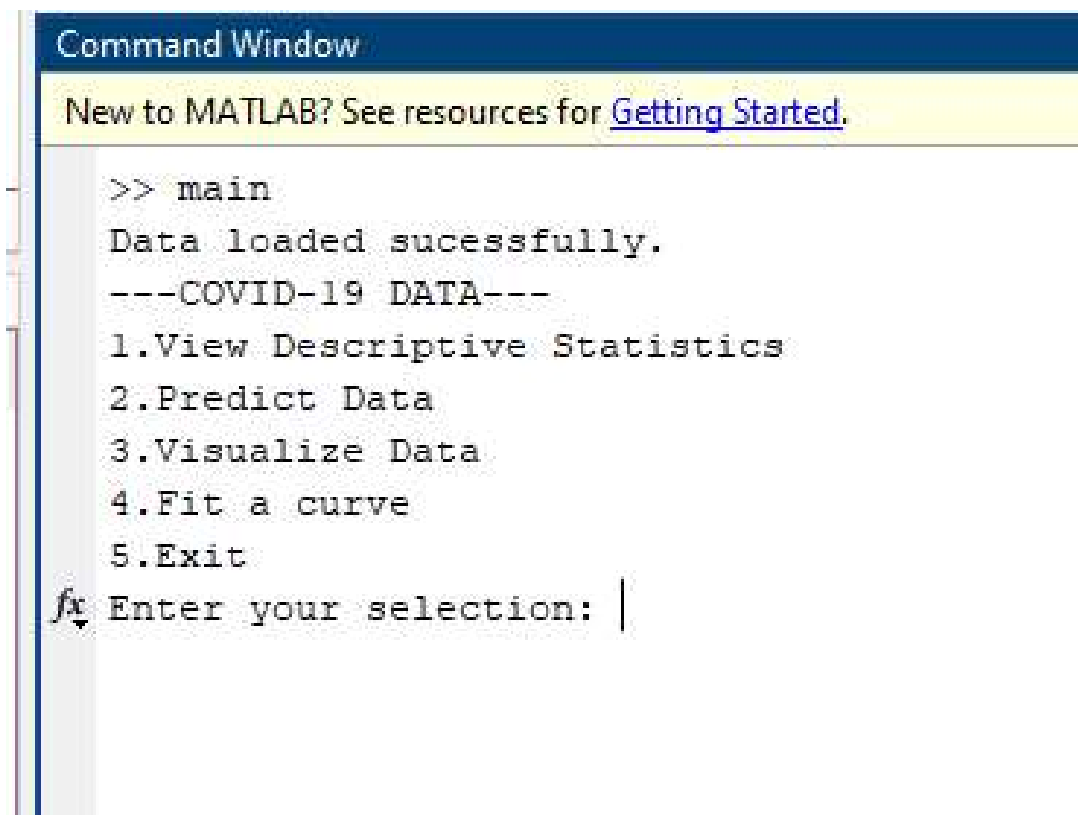

4. Open and Run the Main File

1. In the "Current Folder" panel, locate and click on "main.m".
2. The code will open in the MATLAB Editor. You should see the content of the file displayed in the editor window.
3. To run the code, click the "Run" button (a green triangle icon) at the top of the editor or press F5 on your keyboard.
4. Wait a few seconds for the code to initialize. The output will appear in the "Command Window", which should look like the blue area in the screenshot below.

5. Loading the Data

1. The code will automatically load the COVID-19 data once it starts running. You should see a confirmation message in the "Command Window".

Command Window

New to MATLAB? See resources for Getting Started.

```
>> main
Data loaded sucessfully.
---COVID-19 DATA---
1.View Descriptive Statistics
2.Predict Data
3.Visualize Data
4.Fit a curve
5.Exit
Enter your selection: |
```

6. Selecting Options

1. The program will display a menu with options for different data analysis tasks.
2. Choose the desired option by typing the corresponding number and pressing "Enter".
3. Wait a few seconds after making your selection for the program to process and display the results.

```
Enter your selection: 3
---COVID-19 DATA---
1.View Descriptive Statistics
2.Predict Data
3.Visualize Data
4.Fit a curve
5.Exit
Enter your selection: |
```

Example Options:

- Enter 1 to view descriptive statistics.
- Enter 2 to predict data.
- Enter 4 to exit the program when you are done.

7. Exiting MATLAB

1. After you are finished running the project, type quit in the Command Window and press "Enter" to exit the MATLAB application.

Thank you for using my project to learn more about COVID-19 data analysis