

# COVID WATCH NYC

Heroku app link: <http://covidwatchnyc.herokuapp.com/>

## Running Python Code Locally

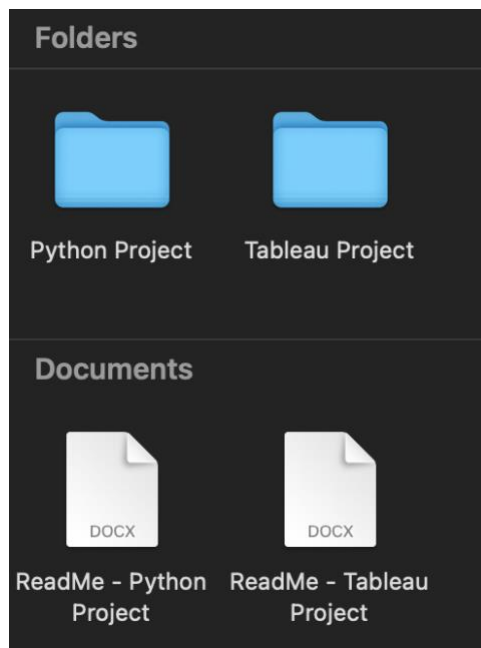
Information below contains directions to successfully run the python code locally

### Prerequisites

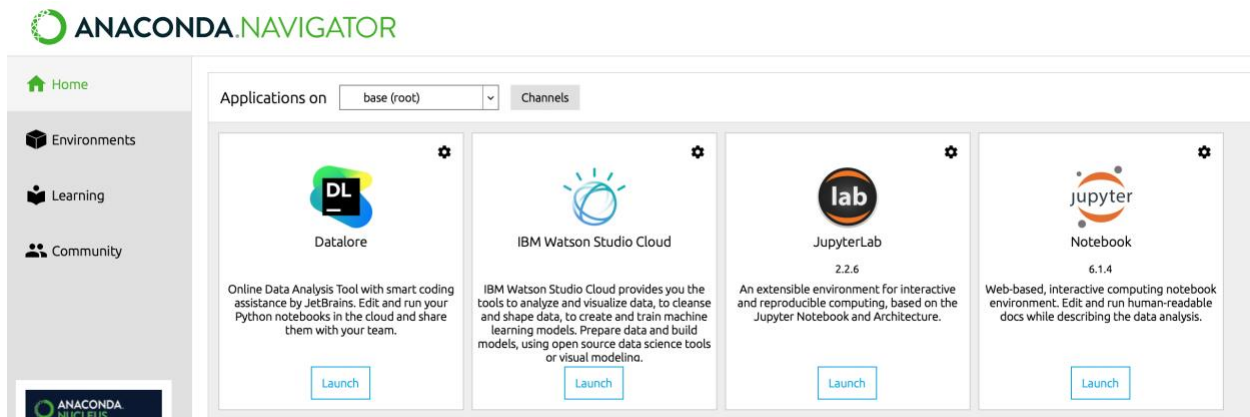
1. Jupyter Notebook running on Anaconda Navigator
2. Any uninstalled python libraries installed using pip or from conda environments

### Procedure

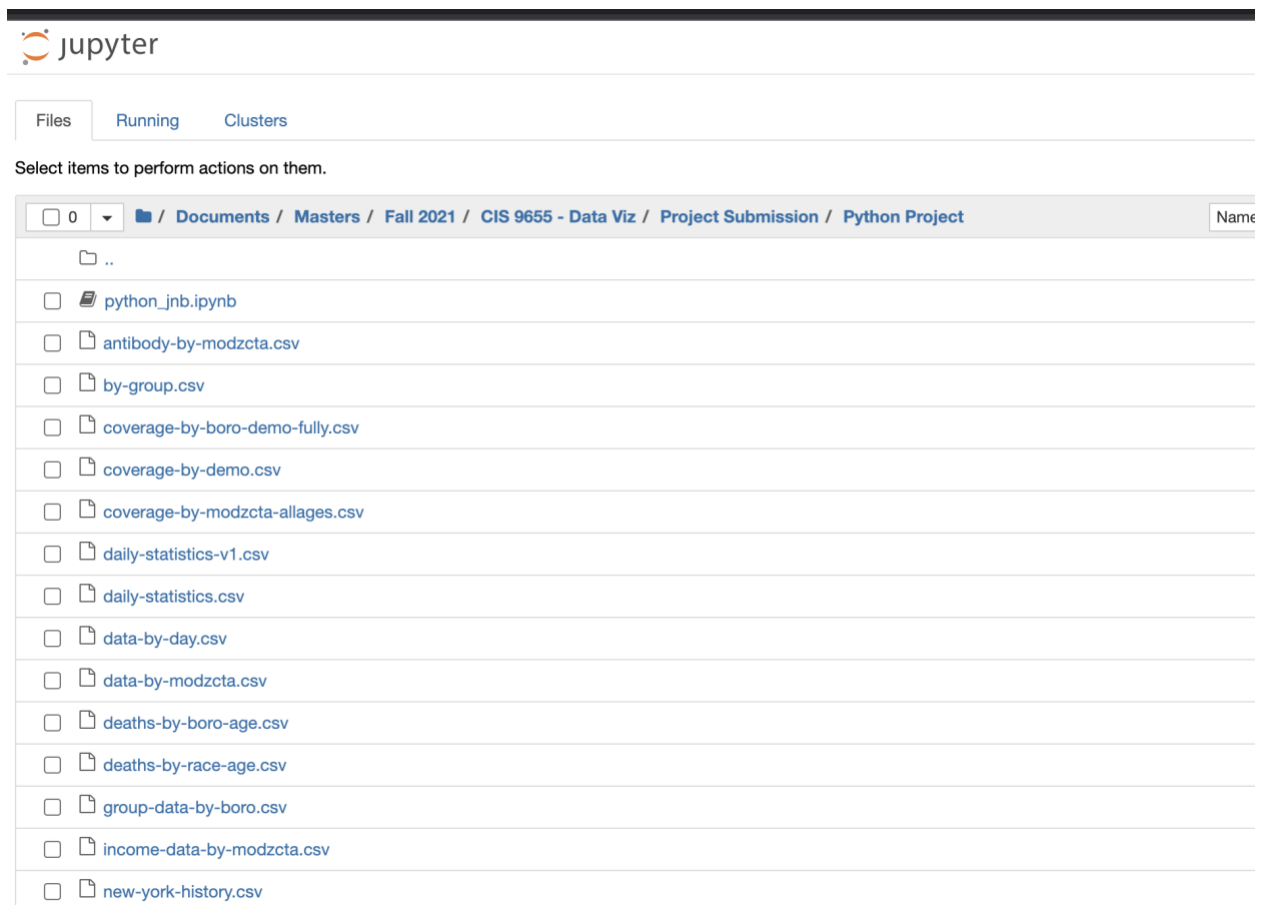
**Step 1:** After unzipping the project submission folder, copy the Python Project folder to any reasonable local directory



## Step 2: Run Anaconda Navigator and Launch Jupyter Notebook

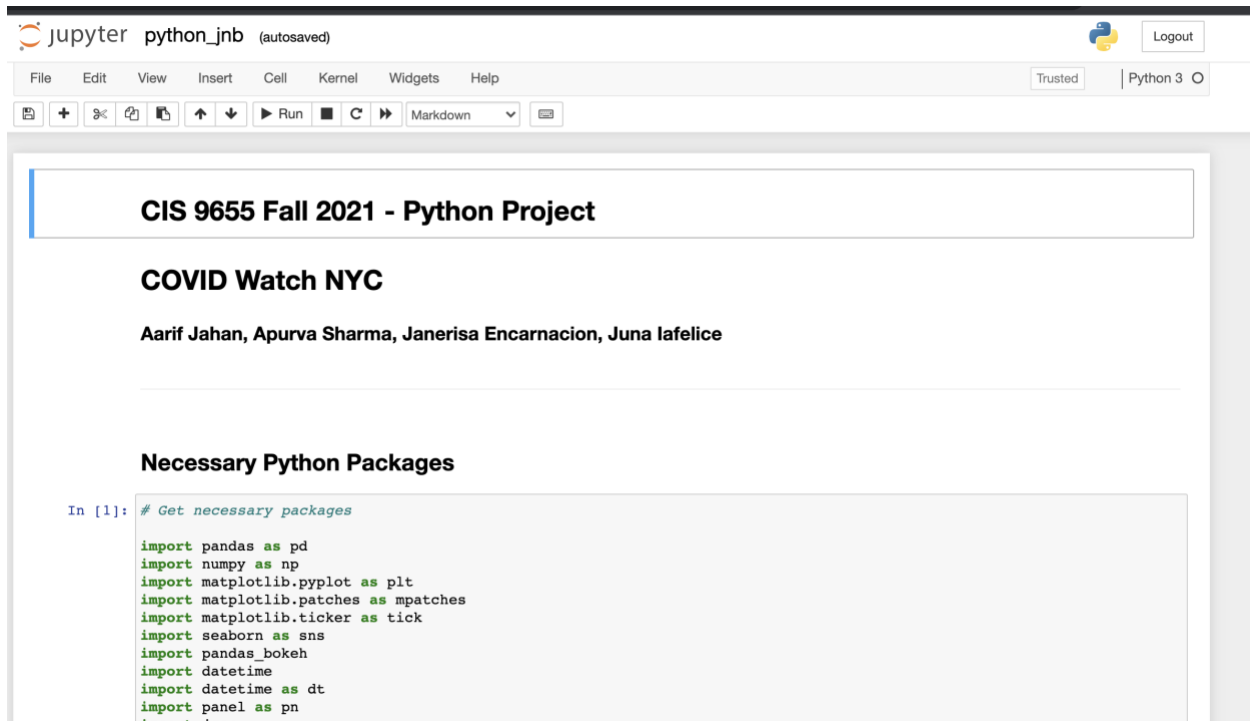


## Step 3: Within Jupyter Notebook explorer window, navigate to the Python Project folder stored locally in Step 1



## Step 4: Ensure the folder contains a single ipynb file, multiple csv data files, a single geojson file and files needed for Heroku – proc, requirements and runtime

**Step 5:** Click on python\_jnb.ipynb file to open our project jupyter notebook on your local web browser

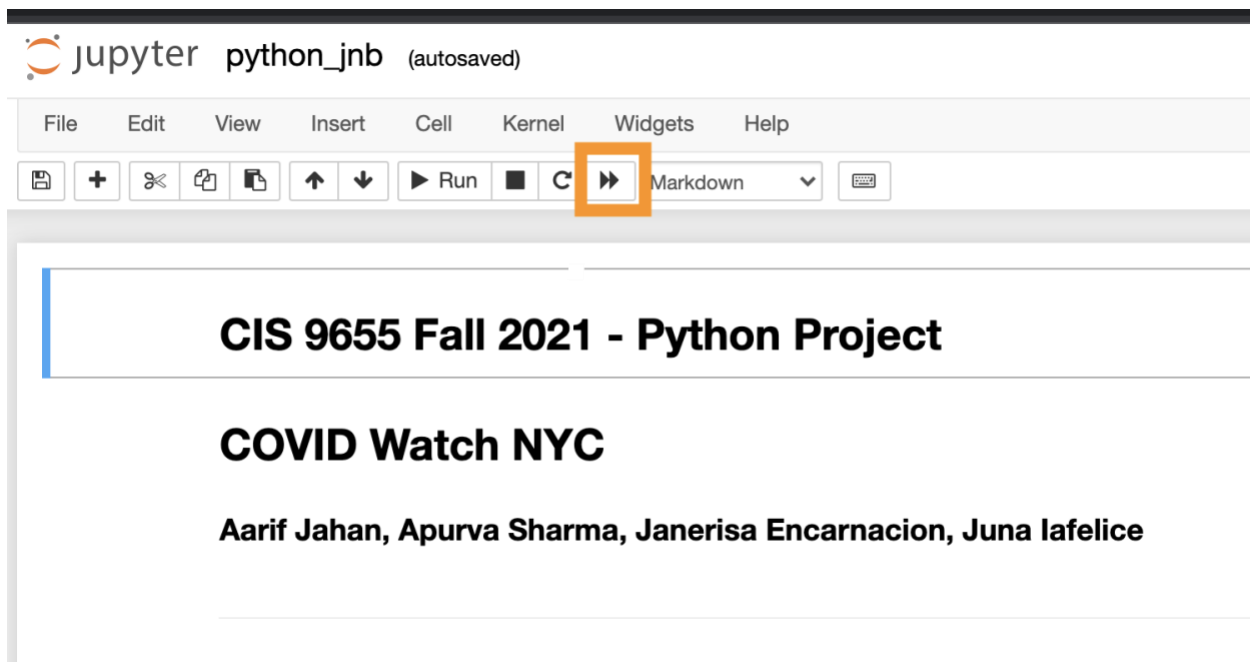


The screenshot shows a Jupyter Notebook interface with the title "python\_jnb (autosaved)". The notebook content includes a header "CIS 9655 Fall 2021 - Python Project", a sub-header "COVID Watch NYC", and the authors "Aarif Jahan, Apurva Sharma, Janerisa Encarnacion, Juna lafelice". Below this is a section titled "Necessary Python Packages" containing a code cell with the following Python code:

```
In [1]: # Get necessary packages
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import matplotlib.patches as mpatches
import matplotlib.ticker as tick
import seaborn as sns
import pandas_bokeh
import datetime
import datetime as dt
import panel as pn
import ipynb
```

**Step 6:** Run the entire code using the “Restart Kernel and Run All Code” button

Note: Any errors with python packages should be resolved by pip installing those packages



The screenshot shows the same Jupyter Notebook interface as before, but with the "Restart Kernel and Run All Code" button (represented by a double right arrow icon) highlighted with an orange box. The notebook content remains the same, showing the project title, sub-header, authors, and the necessary Python packages section.

**Step 7:** After successful runtime, the browser will automatically open the app hosted in local browser using a new window.

← → ↻

localhost:57459

CIS 9655 Fall 2021 Python Project

COVID-19 Statistics Disparity in New York City

Aarif Jahan, Apurva Sharma, Janerisa Encarnacion, Juna lafelice

Overview

COVID-19 Evolution in NYC

Infections Distribution

Deaths Analysis

Trends in Boroughs

Multivariate Analysis - Statistics

Effects of Vaccination

Vaccination Distribution

Multivariate Analysis - Vaccinations

Targeted Focus - Correlation

Geographical Data Exploration

Geographical Data Comparison

Project Overview

The COVID-19 pandemic has brought unprecedented experiences that New Yorkers have seldom experienced in the past.

Times Square - the world's busiest tourist destination - in desolation captures the intensity of the fear and apprehension that our city exper

In this project, our team attempts to dissect information about the onslaught of COVID-19 in NYC and uncover any trends and disparities am

Findings from this project can instigate more targeted data exploration that can identify and bridge any gaps during the ongoing recovery f



**Step 8:** Enjoy data exploration!