GNR638 Project Report

1. Dataset preparation

The dataset we are using is COVIDx dataset. You need to follow this tutorial to collect and prepare the dataset.

2. Preprocessing

a. Store the dataset in Project/Covid-19-Master/data

3. How to run the code?

a. First, run preprocessing.ipynb to convert the image dataset to NumPy arrays. (Or you can directly download the .npy files from our work)
Colab file(Preprocessing_colab)

b. Now either (if you have sufficient RAM) directly run GNR-Project.ipynb
Colab file (GNR_projectcolab)

c. If you don't have enough RAM, run
   i.   CRL.ipynb

   ii.   Stage1.ipynb
       Colab file (STAGE1_colab)

   iii. Stage2.ipynb
       Colab file (STAGE2_colab)

   iv. Stage3.ipynb
       Colab file (STAGE3_colab)

You can Download the Intermediate stage Weights from here for testing (https://drive.google.com/drive/folders/1qy0fHMkXx0Ci6GnkVcSEznQQBj4Mz37E?usp=sharing)