There are 2 Python (.py) files attached with the submission.

The file named "PredictionMAIN_Cloud_Structures" is the main code for the prediction and the 2nd file "EDA_Cloud_Structures" is for the Explatory Data analysis we did for the project.

STEPS:

1. **"EDA_Cloud_Structures.py" can be directly executed.**
2. **For the 2nd file, "PredictionMAIN_Cloud_Structures" the code can be executed by creating folders for each and every cloud separately.**
3. **The images should be in the same folder from where you will run the code.**
4. **There will be 4 folders for 4 types of clouds.**
5. **For creating these folders, you just have to search for "imwrite" and include them in one folder. For example, for first cloud name "Flower", you have to create a folder for flower including the images and augmented images.**
6. **Similarly, for the images which are resized using the Horizontal and Vertical flips are to be put in a separate folder and you can access it by searching for "IM_H" or "IM_V".**
7. **Once you have made these folders, the code is ready to function.**
8. **Please note that the data is too big to upload with the submission as the initial data was around 5 GB and as we augmented the images and worked on it, it climbed to around 50-60 GB. The samples have been portrayed perfectly in the report of the work.**