Data Ingestion

Steps to ingest data:

- 1. Downloaded WinSCP Software from NYU Data Services Lab
 - https://guides.nyu.edu/software
 - https://winscp.net/eng/download.php
- 2. Install and Open installed WinSCP Application
- 3. Use IP address of dumbo to login to WinSCP
- 4. Drag and drop data from local to dumbo.
- 5. Check in the dumbo terminal for the required folder using -ls command.

```
@ sa5476@login-1-1:~
                                                                                X
sa5476@login-1-1 ~ ]$ ls
2014-03-15.log bdad_hw2
                                                               new_copy_from_hdfs.txt
                 cs_fun.txt
                                      hate_crime.csv
                 devicestatus.txt hw2_partD_output.txt weblogs
sa5476@login-1-1 ~]$ hdfs dfs -ls /user/sa5476
ound 6 items
                                       0 2020-02-15 17:24 /user/sa5476/??
drwxr-xr-x+ - sa5476 users
drwxrwx---+ - sa5476 users
drwxr-xr-x+ - sa5476 users
                                         0 2020-02-16 17:00 /user/sa5476/.Trash
                                        0 2020-04-09 00:09 /user/sa5476/.sparkStagi
drwx-----+ - sa5476 users
drwxr-xr-x+ - sa5476 users
drwxr-xr-x+ - sa5476 users
                                 0 2019-12-01 00:23 /user/sa5476/.sta
0 2020-02-15 16:43 /user/sa5476/bdad
                                        0 2019-12-01 00:23 /user/sa5476/.staging
                                         0 2020-02-01 16:45 /user/sa5476/rbda
[sa5476@login-1-1 ~]$ hdfs dfs -ls /user/sa5476/bdad
ound 2 items
drwxr-xr-x+ - sa5476 users
drwxr-xr-x+ - sa5476 users
                                        0 2020-02-01 16:59 /user/sa5476/bdad/class1
                                        0 2020-02-15 16:43 /user/sa5476/bdad/class3
sa5476@login-1-1 ~]$ hdfs dfs -mkdir /user/sa5476/bdad/project
[sa5476@login-1-1 ~]$ hdfs dfs -put hate_crime.csv /user/sa5476/bdad/project
[sa5476@login-1-1 ~]$ hdfs dfs -ls /user/sa5476/bdad/project
ound 1 items
rw-r--r--+ 3 sa5476 users 52609580 2020-04-10 23:46 /user/sa5476/bdad/projec
t/hate crime.csv
sa5476@login-1-1 ~]$
```

- 6. Folder "hate crime.csv" is present.
- 7. Use the following commands to make folder project_01 in hdfs and ingest this data.:

```
hdfs dfs -mkdir /user/sa5476/bdad/project
hdfs dfs -put hate_crime.csv /user/sa5476/bdad/project
hdfs dfs -cat /user/sa5476/bdad/project/hate_crime.csv
```

8. Snippet of the dataset.

