As the submitted folder has many documents I thought it would be better to give a brief description of each file here.

**Python files:**

1. **Tweet\_scrape.py** : Code for scraping tweets using Twint
2. **Sentiment\_analysis.ipynb:** Code for identifying trending tweets from the scraped tweets and performing sentiment analysis. It also contains code for cleaning the data for using all the collected data for further analysis that is used in Additional\_analysis.ipynb.
3. **Opeansea\_scrape.py:** Code for scraping the average price of the nft collections of our choice from opensea market place
4. **Additional\_analysis.ipynb:** Code for performing additional analysis on the social media features and price of nft collections.

**CSV files:**

1. **NFT\_Tweet\_1\_year.csv:** CSV file containing the scraped tweets with minimum 100 likes and containing the hashtags mentioned in the problem statement . from 01-01-2021 to 24-03-2022.
2. **NFT\_Tweet\_1\_year\_mp.csv:** CSV file containing the scraped tweets with minimum 100 likes and mentioning at least one of the top 10 NFT marketplaces from 01-01-2021 to 24-03-2022.
3. **SA\_data\_1\_year.csv:** CSV file containing top trending NFTs from all top10 marketplaces , their information and Sentiments. from 01-01-2021 to 24-03-2022.
4. **Opensea\_collection\_1\_year.csv:** CSV file containing top trending NFTs from Opensea , their information and Sentiments. from 01-01-2021 to 24-03-2022.
5. **User\_info\_1\_year.csv:** CSV file containing user information like number of followers , location etc of the users who posted the trending NFTs.
6. **Opensea\_collection\_final\_data.csv:** CSV file containing all the collected information of the trending NFT collections in open sea collected from twitter, opensea, and user information of the person who posted the tweets .
7. **ETH-USD.csv :** CSV file containing data for converting the ETH to US dollar on any date so that we might get a better idea of the valuation of a particular nft collection. This was used because the ETH values kept fluctuating over a period of one year. I wanted to get the valuation of the collection against a more stable currency.