

Team: ASA

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## CS 410 (Text Information Systems) - Progress Update

Progress made thus far:

- We made a Twitter developer account and got API keys so that we would be able to analyze tweets for our sentiment analysis.
- We learned more about how to use the Twitter developer API and successfully connected to it.
- We successfully retrieved a set of tweets related to a keyword topic after making a request for a specific person leveraging the API. We were also able to do this successfully for a keyword about a company.
- We researched implementation methods and chose which one to use.

Remaining tasks:

- We need to formulate our sentiment analysis process and come up with a plan of execution.
- We need to build a sentiment analysis of a tweet.
- We need to choose a collection of tweets and run the sentiment analysis on them.
- We need to choose a ML algorithm to use to fit the needs of our project and adapt it accordingly.
- We need to filter tweets of spam.
- We need to make any improvements to our UI to ensure that it is accessible to our users.

Any challenges/issues being faced:

- Initially, we could not access the data because we do not have high enough of an authentication access level.
- We had compatibility issues with Python versions.
- Twitter switched its API format in November 2021. As a result, there is a lack of references with the new Twitter API format online. We were trying to use Tweepy and that did not work, so we have to use the Twitter API from scratch (URLs, API requests since they are using pre-built methods).