Criterion E

Evaluation of Final Product

Success Criteria

Fig 01. Homepage GUI

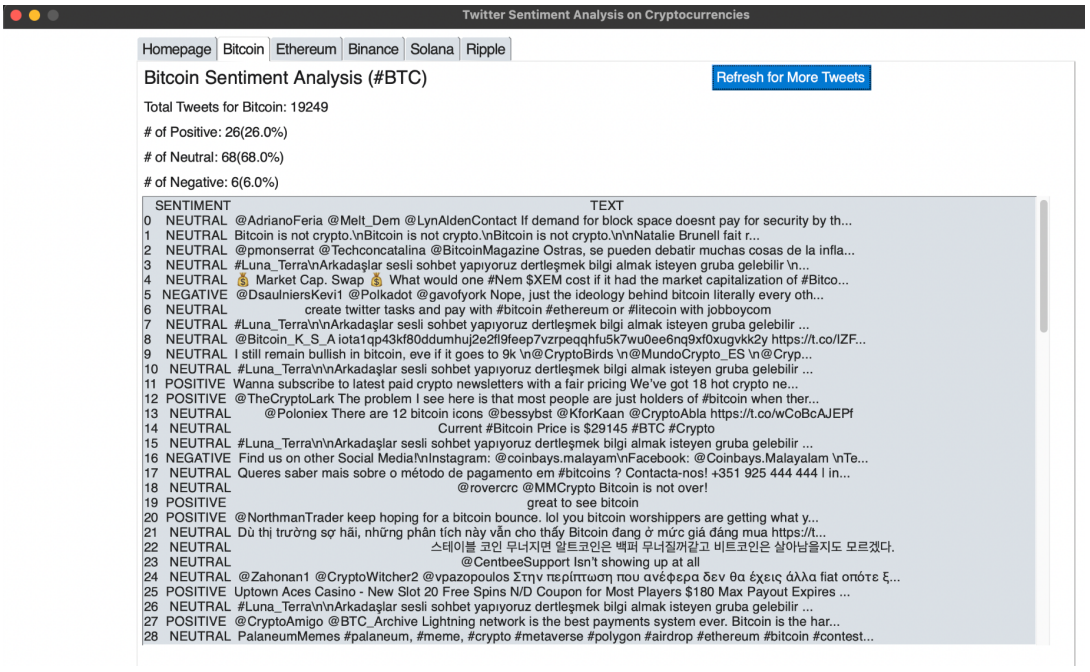

Fig 02. Individual GUI

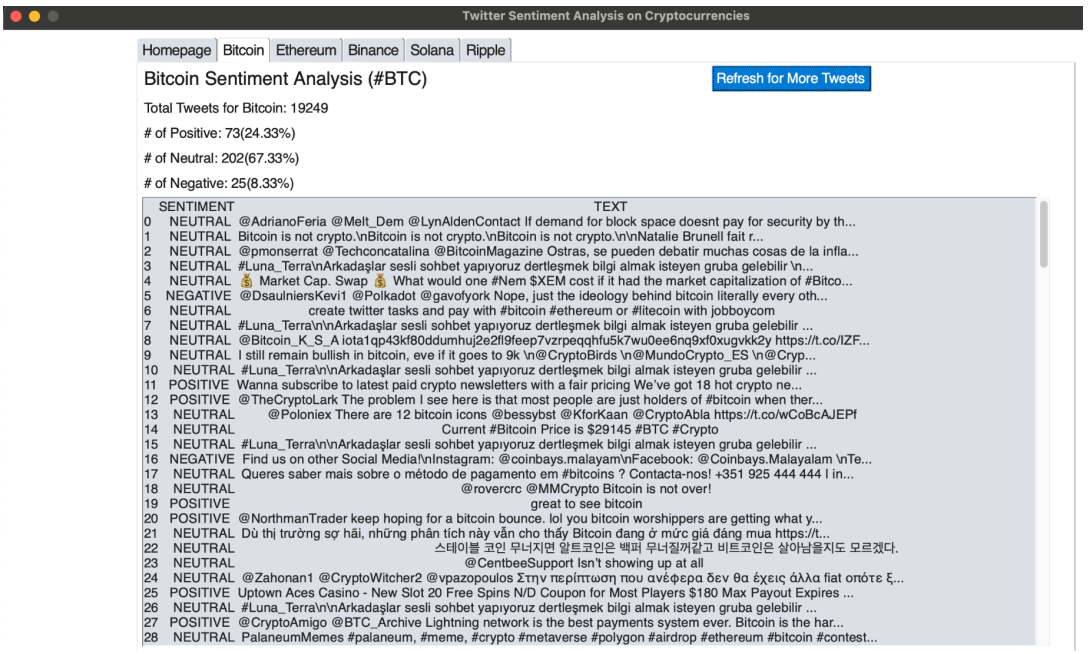

Fig 03. Individual GUI REFRESHED

Success Criteria	Teacher Feedback & Evidence
✅This system is able to collect tweets about the top 5 popular cryptocurrencies on Twitter.	In Figure 01, the cryptocurrencies are listed.
✅This system is able to analyze whether or not each tweet is neutral, bullish, or bearish using a machine learning algorithm.	In Figure 02, the sentiment is displayed
✅This system has a clear Graphical User Interface (GUI) in python.	In the last interview[1], the client agreed that the program was "complete while being concise"
✅This system has options to view each specific tweet collected under each type of cryptocurrency and their corresponding sentiment.	In FIgure 02, sentiment and text are displayed
✅This system can display the percentage of neutral, bullish, or bearish of a cryptocurrency.	In Figure 01, the sentiment graph of cryptocurrency is displayed
✅This system can display the total tweets collected.	In Figure 01, the actual tweets collected are displayed
✅This system can display the most discussed cryptocurrency for over an hour.	In Figure 01, the cryptocurrencies are listed in order of discussion.
✅This system can display basic information about each cryptocurrency (cautions).	In Figure 01, some information on cryptocurrency is displayed but limited, to ensure that the main focus of the application is for educational purposes.

[1] Appendix - Last Interview (Transcript of Interview #2)

Recommendation for Further Improvement

Feedback From Client

According to the last meeting [2], the client was satisfied with my solution to her problem, she did not specifically comment on each success criteria as there are a limited number of user interactive functions for her to give feedback, hence providing an aggregate opinion for the general project itself. However, an improvement that the client proposed is an alarm system, which directly sends a notification to the client's phone when there is a change in the ranking of the popularity of cryptocurrencies.

Extensibility

For future improvement, an interest function to add can be how users can choose their own cryptocurrency to analyze. For example, if the user is interested in researching another cryptocurrency such as Terra, the user can enter the hashtag that corresponds to the cryptocurrency. This can be done, as the program is programmed based on an object class called *CryptoCurrency*, hence by assigning the character the user input to the class object, the program can analyze and display the information about that specific query of cryptocurrency.

Something that I really hope to add to this program is the accuracy of the sentiment analysis model. Originally, I planned to train my own model, but I realized the computational power it requires to train an accurate model. Therefore I decided to choose a pre-trained sentiment analysis model. By adding a personally trained model, the application will be more accurate in the analysis of a cryptocurrency, as the training dataset of the pre-trained model does not necessarily contain tweets.

Word Count: 343

Total report Word Count: 1923 (470+ 1110 + 343)

[2] Appendix - Transcript of Interview #2