

3.2.6 Peer review: Presenting insights from sentiment analysis:

In this endeavor, I conducted a comprehensive analysis of comments extracted from a YouTube video. The primary objective was to perform sentiment analysis utilizing the NLTK Vader class, categorizing comments as positive, neutral, or negative, and delivering a sentiment assessment. Here is a concise summary of our key findings:

Upon scrutinizing comments from the YouTube video regarding Chat GPT, we observed predominantly positive sentiment in the commentary. The majority of comments were either neutral or exhibited a positive sentiment based on the overall sentiment distribution. This implies that, overall, most comments carry a positive sentiment, with a minority expressing negative sentiments.

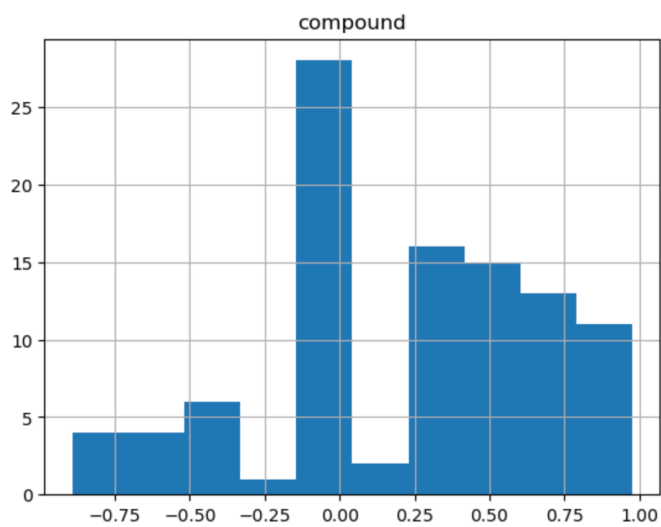
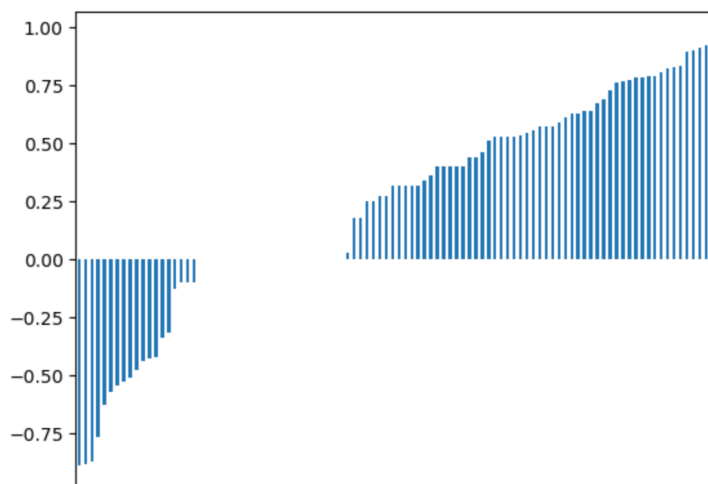
Our analysis, particularly the graphs displaying the distribution and count of the overall compound sentiment, clearly illustrates this trend. For instance, out of 100 analyzed statements, the mean sentiment score of 0.231238 indicates a leaning towards positive sentiments. The standard deviation of 0.458757 suggests some variability, signifying a mix of negative and positive sentiment scores. Notably, the range from a minimum of -0.890500 (indicating highly negative sentiment) to a maximum of 0.975300 (representing highly positive sentiment) highlights the sentiment spectrum. Positive comments such as "pretty cool," "impressive," and "like advanced" were prominent, while "dumb" stood out as the most negative comment.

Regarding word frequency, terms like "ai," "people," "would," "chat," and "work" were commonly mentioned. This suggests that many comments expressed uncertainty about the future of AI and Chat GPT, with uncertainty about their potential impact on society. Overall, sentiments were positive, driven by comments expressing admiration. Negative sentiments mostly stemmed from uninformed opinions driven by fear.

In conclusion, the sentiment analysis indicates a predominance of positive sentiment toward Chat GPT, although a significant portion of comments remains neutral. To gain deeper insights, exploring comment sections of other YouTube videos or collecting data from diverse social media platforms may be worthwhile. While it is too early to make definitive conclusions due to the limited dataset, preliminary indications suggest Chat GPT's potential benefits, warranting further research for FutureProof. Expanding the dataset to include diverse time periods and audience groups can provide more comprehensive insights into sentiment dynamics.

Graphs and data below:

Distribution of sentiment for sampling data:



Positive comments:

	neg	neu	pos	compound
pretty cool	0.0	0.000	1.000	0.6705
impressive	0.0	0.000	1.000	0.5106
like advanced	0.0	0.000	1.000	0.5423
cool	0.0	0.000	1.000	0.3182
love	0.0	0.000	1.000	0.6369
like	0.0	0.000	1.000	0.3612
top free powerful ai	0.0	0.112	0.888	0.7845
many thanks dear really interesting useful	0.0	0.146	0.854	0.8927
helpful inspired help food preparation	0.0	0.187	0.813	0.8271
wow world	0.0	0.208	0.792	0.5859

Negative comments:

	neg	neu	pos	compound
dumb	1.000	0.000	0.000	-0.5106
chat destroy us	0.636	0.364	0.000	-0.5423
dumb ai must bias people	0.610	0.390	0.000	-0.5719
political bias	0.583	0.417	0.000	-0.1027
chat must racist prejudice ai trust crap ever	0.576	0.233	0.192	-0.7650
yes whatever knife kill human knife move kill human ridiculous delusion	0.551	0.324	0.125	-0.8807
information becomes dangerous weapon control dictate punish human weapon heading world humanism fade agenda testify	0.498	0.502	0.000	-0.8720
yea could possibly go wrong	0.437	0.563	0.000	-0.4767
freaky amazing	0.397	0.000	0.603	0.3182
one used ai made two tired	0.367	0.633	0.000	-0.4404

Comments that are more positive than negative:

	neg	neu	pos	compound
put information come first definitely felt personal also used next video actually depth spot video would like next felt like talking friend actually pretty creepy felt like somebody talking felt somebody behind screen talking however definitely loving never thought lifetime would come across ai good	0.0	0.580	0.420	0.9753
love still use question instantly also good bit fun always good	0.0	0.345	0.655	0.9231
investment stocks great way invest money team constantly market make sure always informed best time invest result made money ever manage portfolio invest stocks worth	0.0	0.627	0.373	0.9100
pretty sure video curve ai expansion reality living ai beautiful thank video life	0.0	0.431	0.569	0.8979
many thanks dear really interesting useful	0.0	0.146	0.854	0.8927
instead saying quot endless quot quot needs meaningful ever quot remember success progressive realization idea use wisely	0.0	0.614	0.386	0.8316
helpful inspired help food preparation	0.0	0.187	0.813	0.8271
amazing definitely future tried recently fast even information well	0.0	0.411	0.589	0.8225
great time old enjoy	0.0	0.215	0.785	0.8074
love job easier found new	0.0	0.300	0.700	0.7906

Frequency count of words:

```
# Use Counter to count frequencies
element_counts = Counter(words)

# Sort the elements by their frequency in descending order
sorted_elements = sorted(element_counts.items(), key=lambda x: x[1], reverse=True)

# Print the sorted elements
for element, count in sorted_elements:
    print(f"{element}: {count} times")
```

```
ai: 21 times
quot: 20 times
like: 17 times
people: 17 times
chat: 11 times
would: 9 times
could: 8 times
work: 8 times
human: 8 times
also: 7 times
information: 7 times
get: 7 times
time: 6 times
right: 6 times
great: 6 times
use: 6 times
good: 6 times
really: 6 times
needs: 6 times
```