

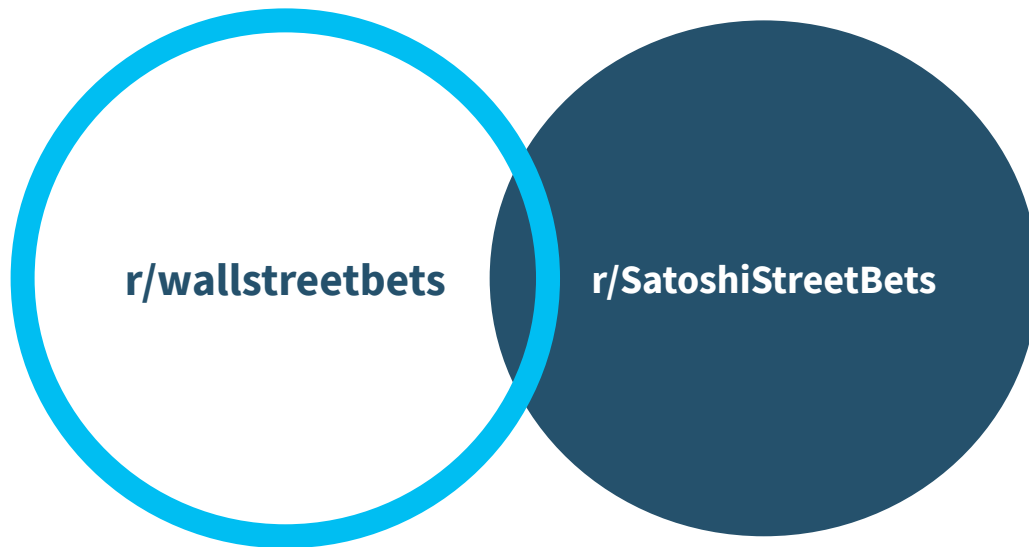
Measuring Risk Tolerance - Crypto or Stocks?

Seung Woo Choi



Disclaimer

An Introduction to Two Subreddits



Problem Statement

1. Build a classification model with accuracy of 80%+
2. Determine words unique to two subreddits to understand risk profile



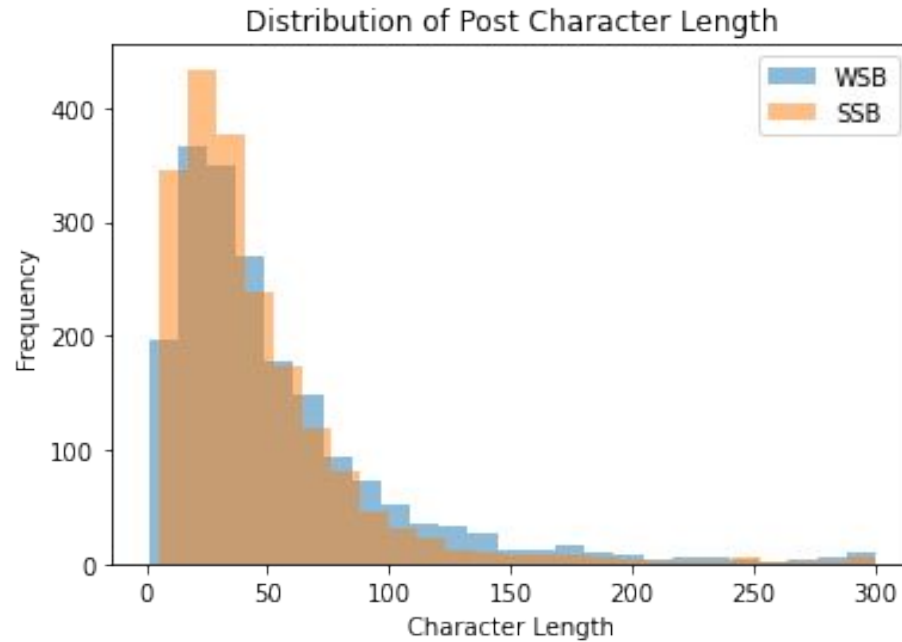
Data Source

Pushshift's web API

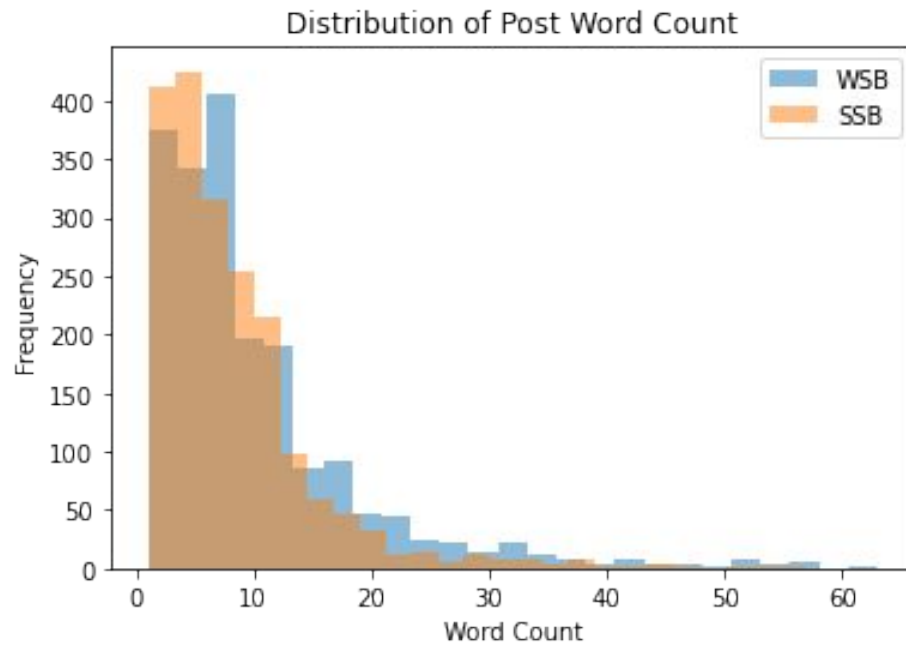
**Monday, March 1, 2021
9:06:40 PM**



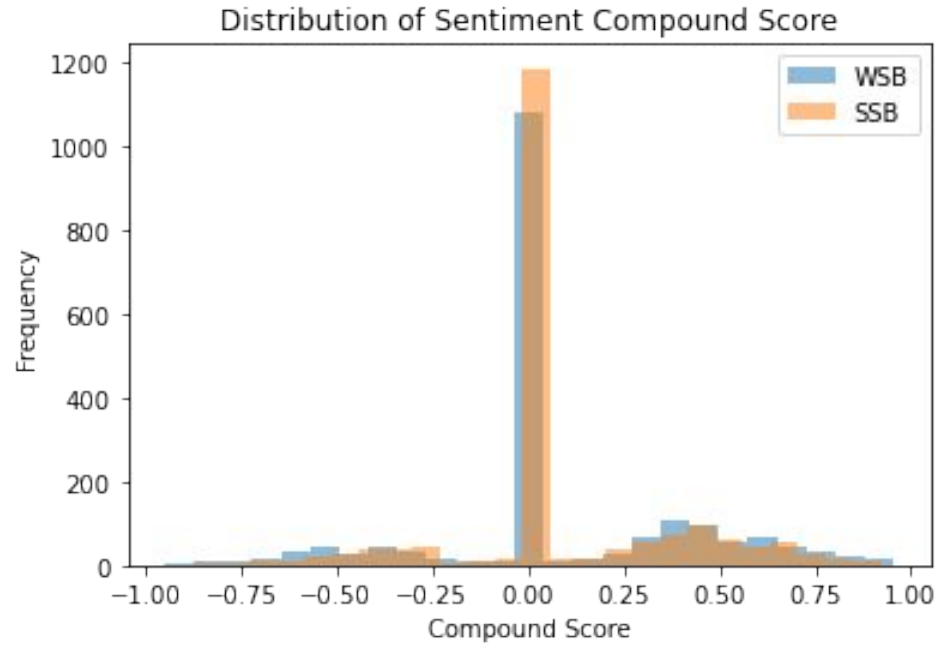
Exploratory Data Analysis



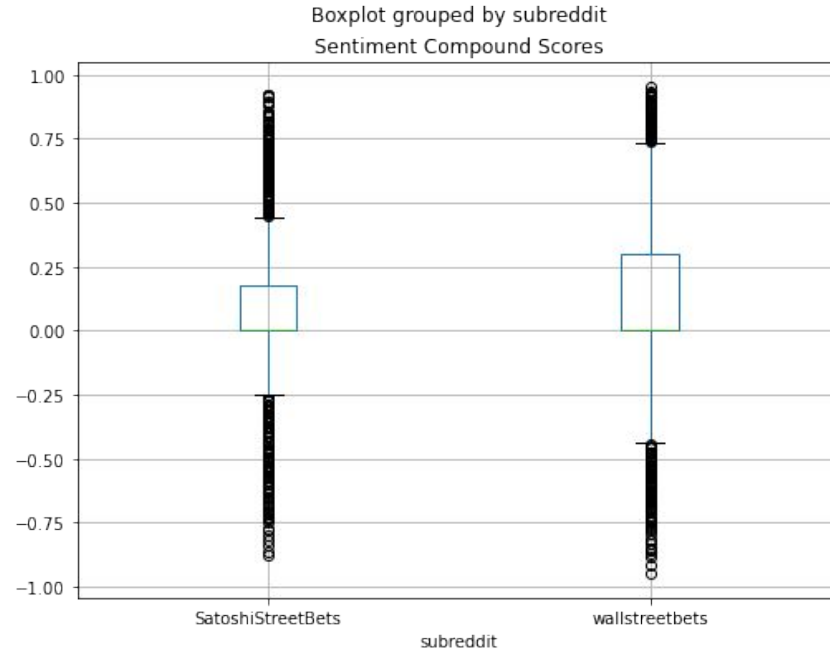
Character Length of Posts



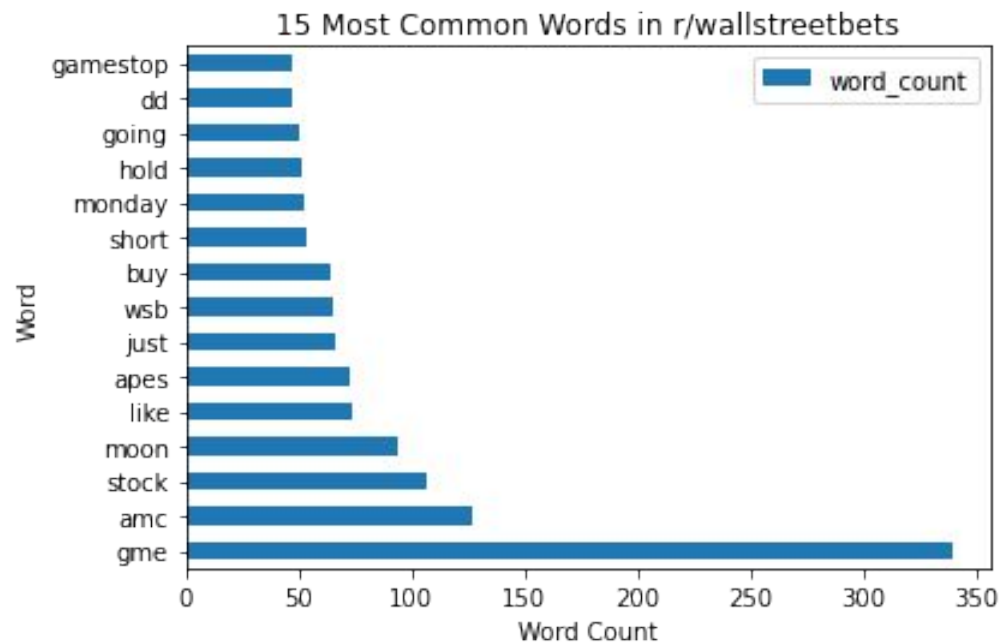
Word Count of Posts



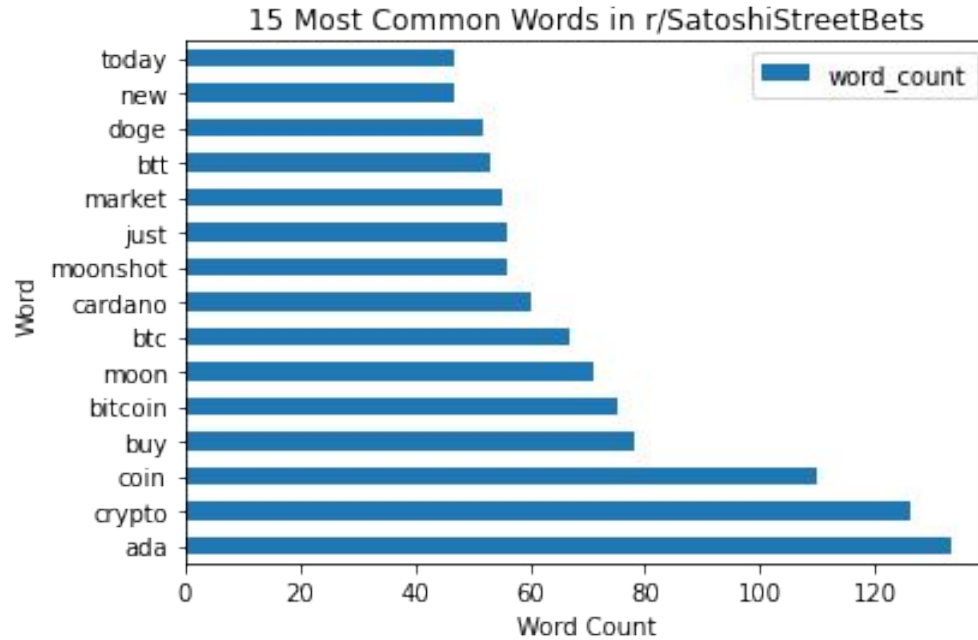
Distribution of Sentiment Compound Scores



Ranges and Outliers in Sentiment Compound Scores



15 Most Common Words in r/wallstreetbets



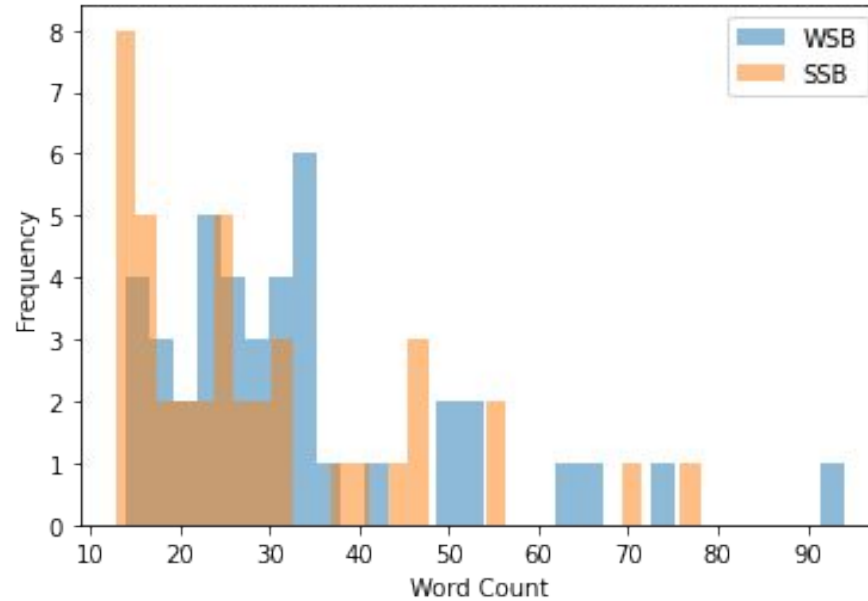
15 Most Common Words in r/SatoshiStreetBets

A word cloud featuring 41 common words shared between WSB and SSB. The words are arranged in a non-uniform, overlapping manner, with colors ranging from light green to light orange. The words include: day, let, use, right, buying, make, new, price, week, bought, future, need, short, think, good, hold, way, people, today, buy, just, post, moon, monday, market, long, like, big, trading, know, time, best, going, 2021, money, help, guys, ampyolo, don, and got.

day let use
right buying make new price week bought future
need short think good hold way people today
buy just post moon monday market
long like big trading know time best going
2021 money help guys ampyolo don got

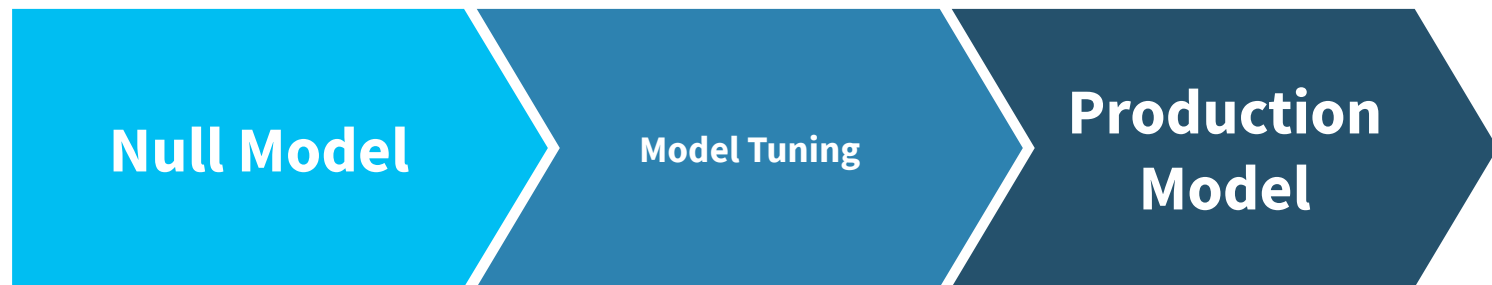
41 Most Common Words Shared between WSB and SSB

Distribution of Most Common Words Shared between WSB and SSB



Most Common Words Shared between WSB and SSB

Modeling



Conclusion

r/wallstreetbets

stocks

r/SatoshiStreetBets

cryptocurrencies

81.69%

accuracy on unseen data

Thank you!