

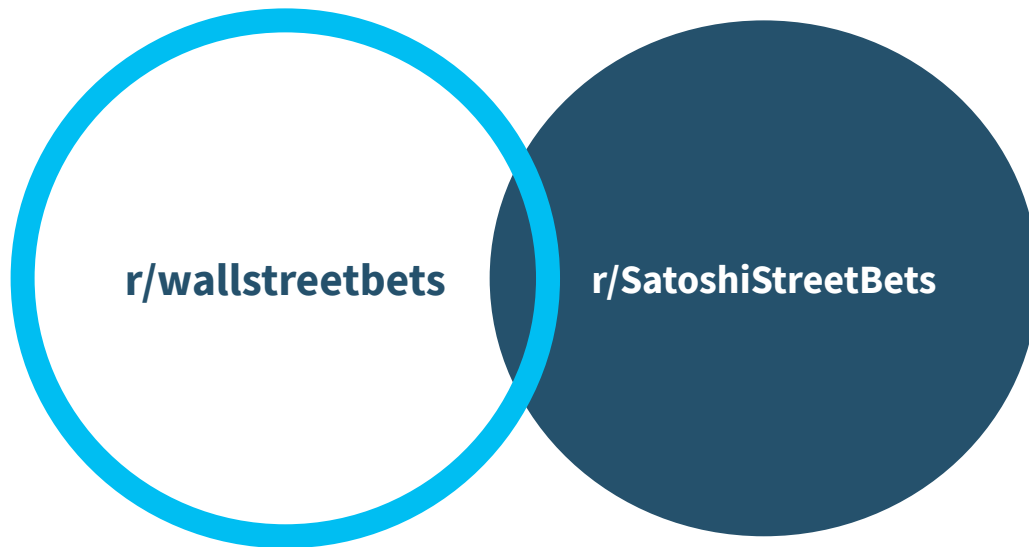
Measuring Risk Tolerance - Crypto or Stocks?

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



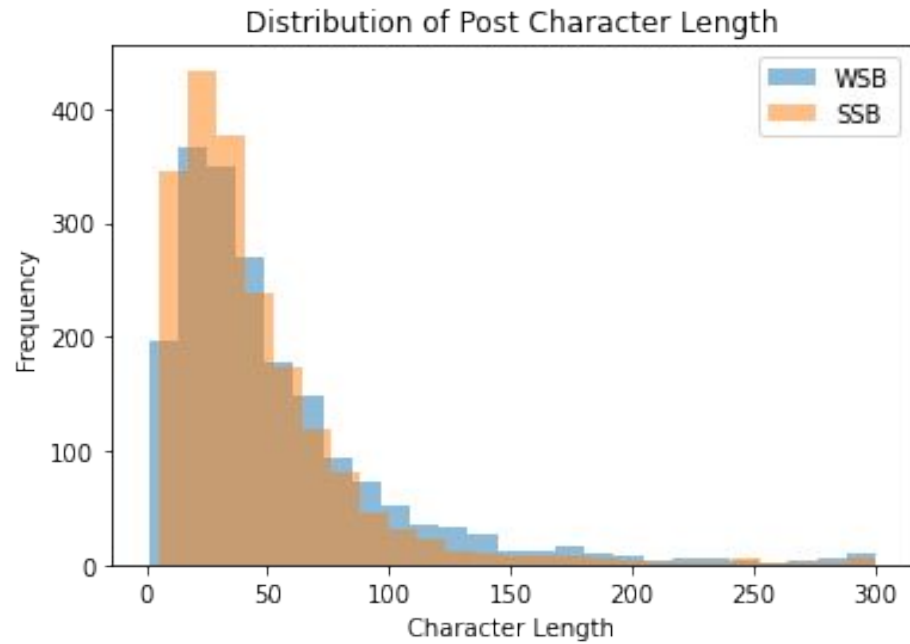
Data Source

Pushshift's web API

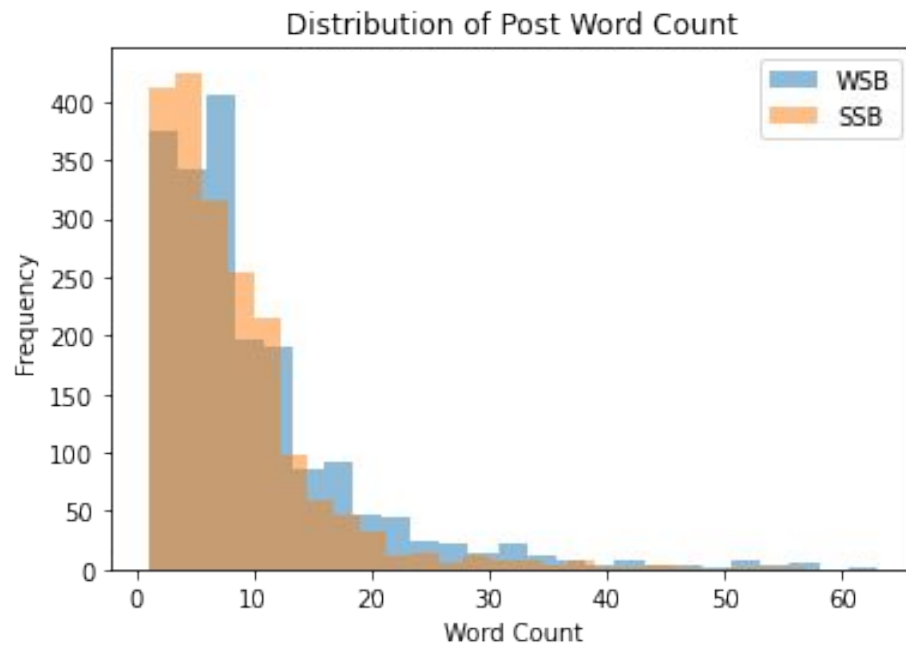
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9:06:40 PM**



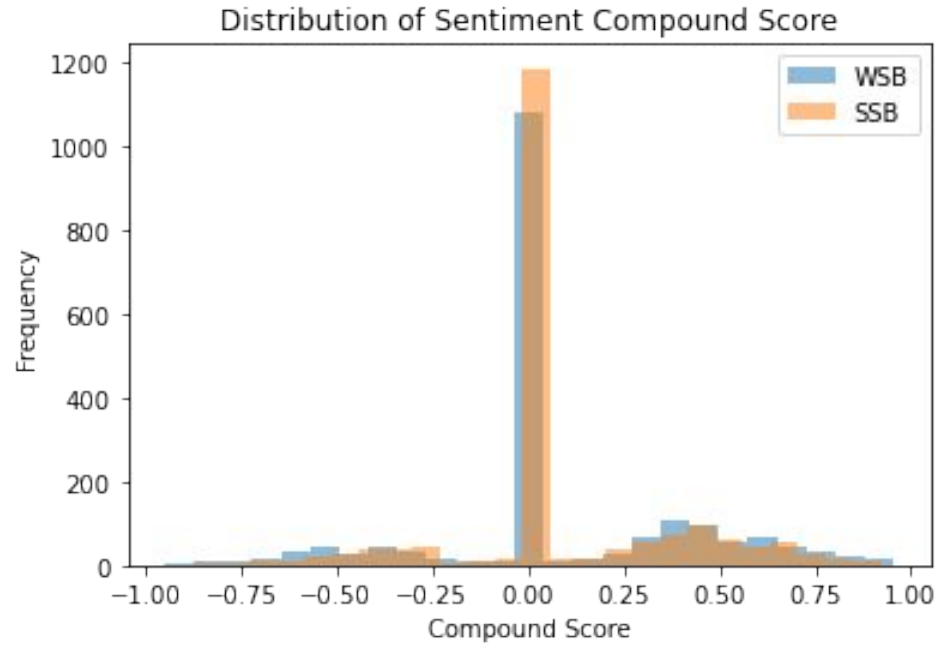
Exploratory Data Analysis



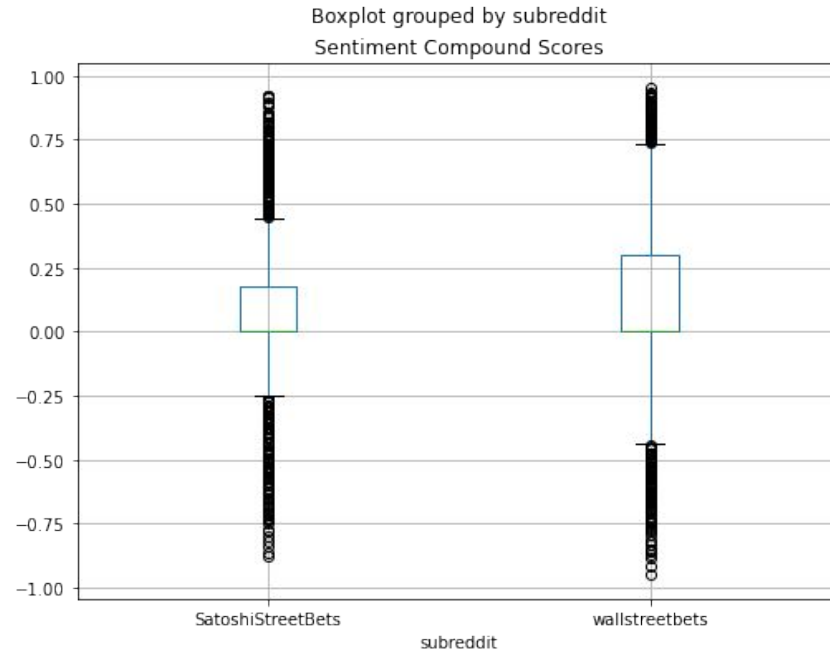
Character Length of Posts



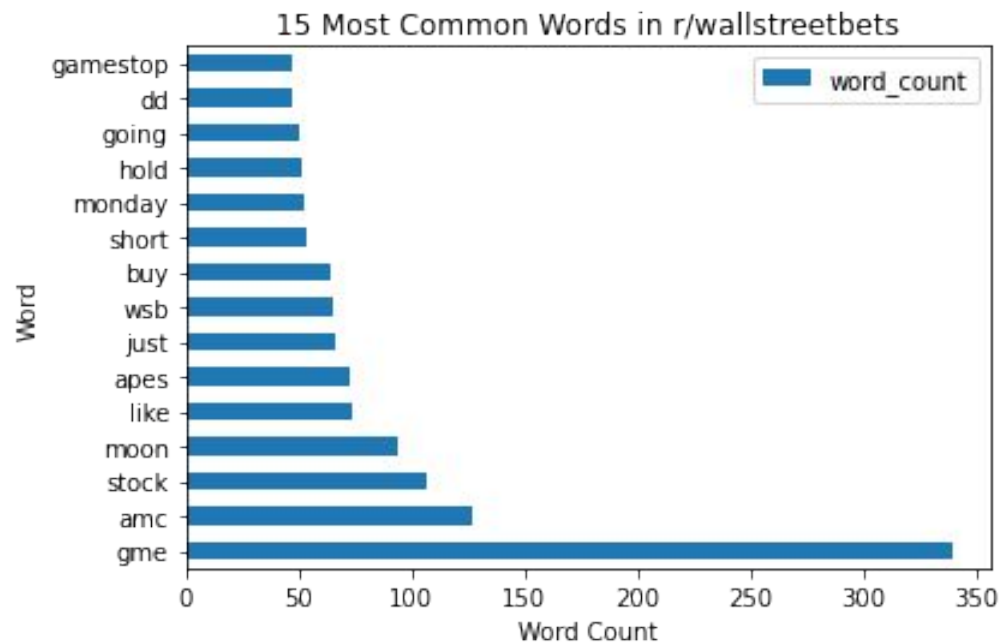
Word Count of Posts



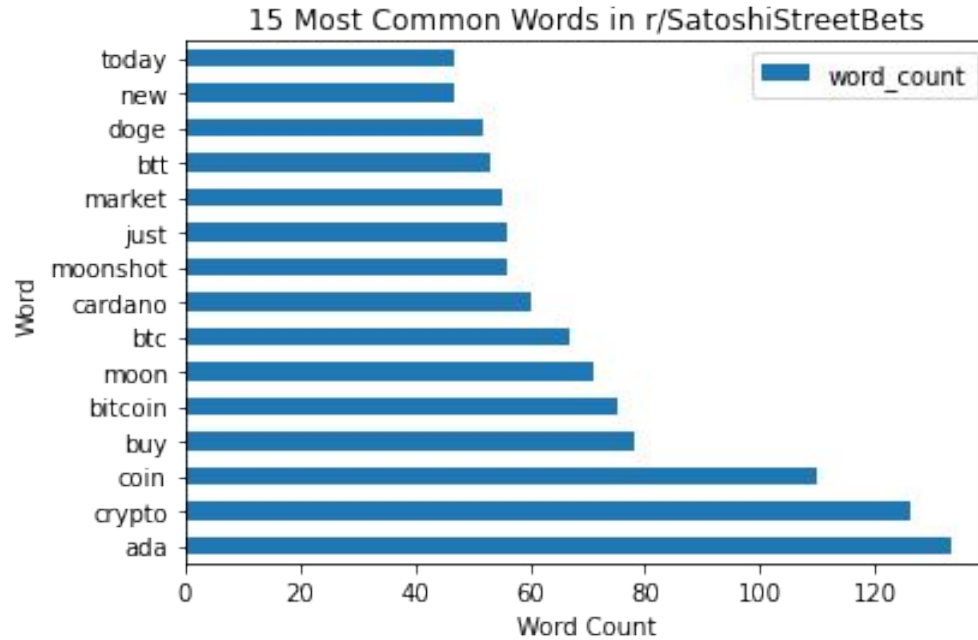
Distribution of Sentiment Compound Scores



Ranges and Outliers in Sentiment Compound Scores



15 Most Common Words in r/wallstreetbets

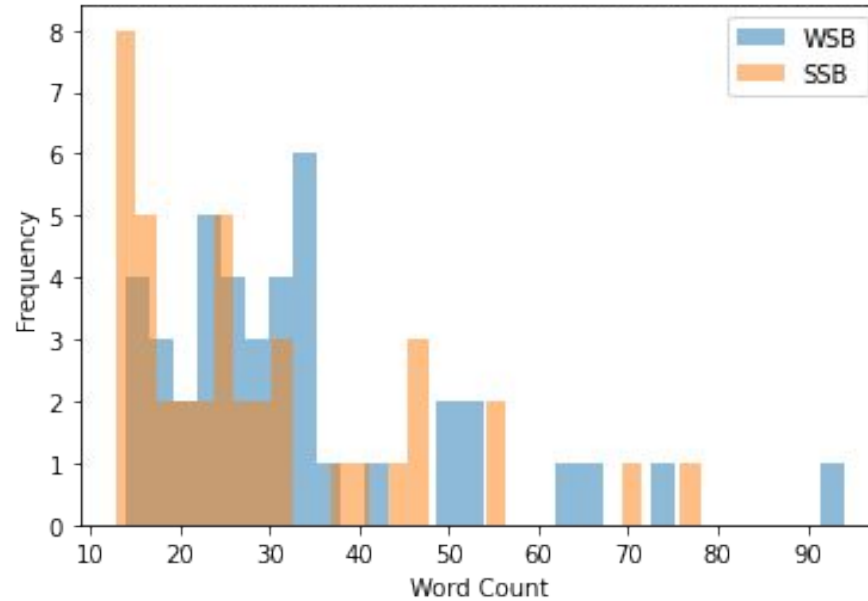


15 Most Common Words in r/SatoshiStreetBets

A word cloud of 41 common words shared between WSB and SSB. The words are arranged in a non-uniform, overlapping manner. 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, got.

41 Most Common Words Shared between WSB and SSB

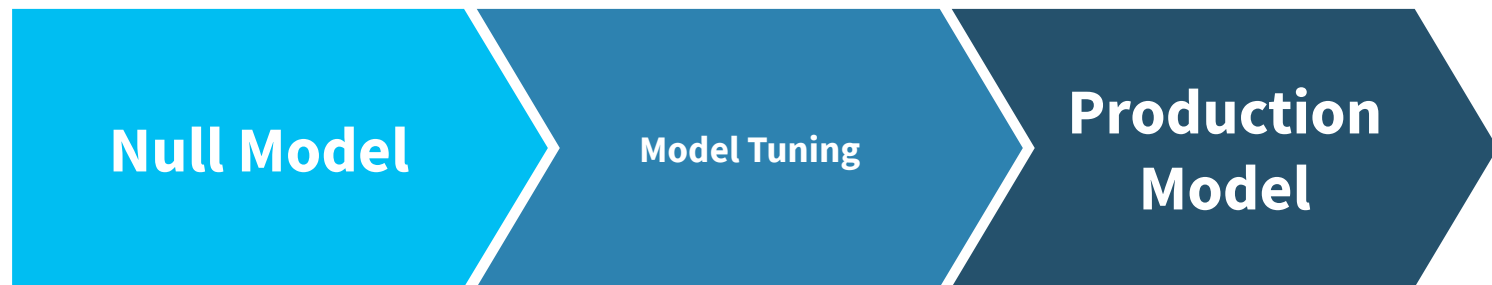
Distribution of Most Common Words Shared between WSB and SSB



Most Common Words Shared between WSB and SSB



Modeling



Conclusion

r/wallstreetbets

stocks

r/SatoshiStreetBets

cryptocurrencies

82.98%

accuracy on unseen data

Thank you!