

Shower Thoughts v Intrusive Thoughts

Project 3 | DS1 523 | Adriana 1 Machado

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Growing telehealth industry and ethics

3.0 Modeling

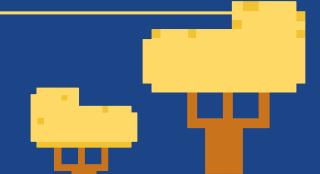
Comparisons and the winner

2.0 Exploratory Data Analysis

NLP & Sentiment Intensity Analysis

4.0 Recommendations

And iterations

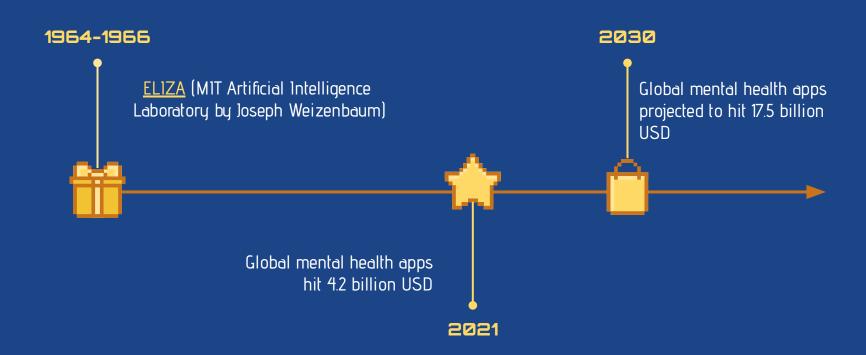








🕨 Telehealth is Booming 📲



Social Responsibility



AI in Mental Health Services

Funded, widely-used, nonprofit mental health services are using Al to detect crises in individual help-seekers



PRIVACY

Mozilla has a running list of mental health apps (counseling/therapy, prayer, meditation, etc.) and their data privacy ratings

Reddit: Not Clinical Research



r/ShowerThoughts r/IntrusiveThoughts



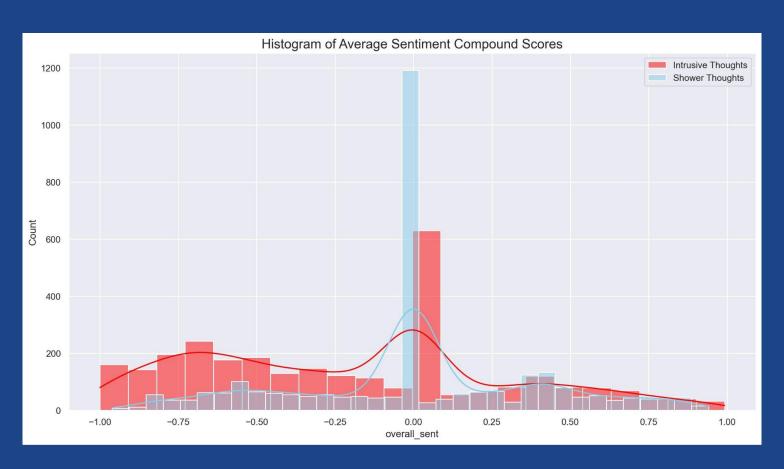
Anonymity & Honesty



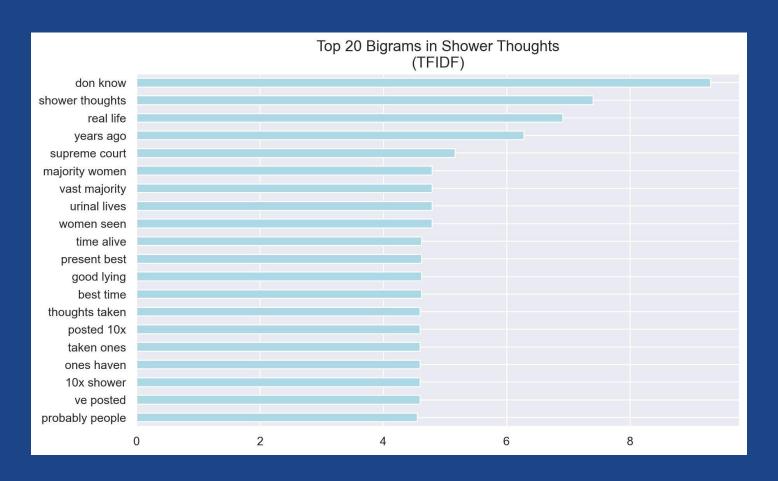
2.0

- Exploratory Data Analysis

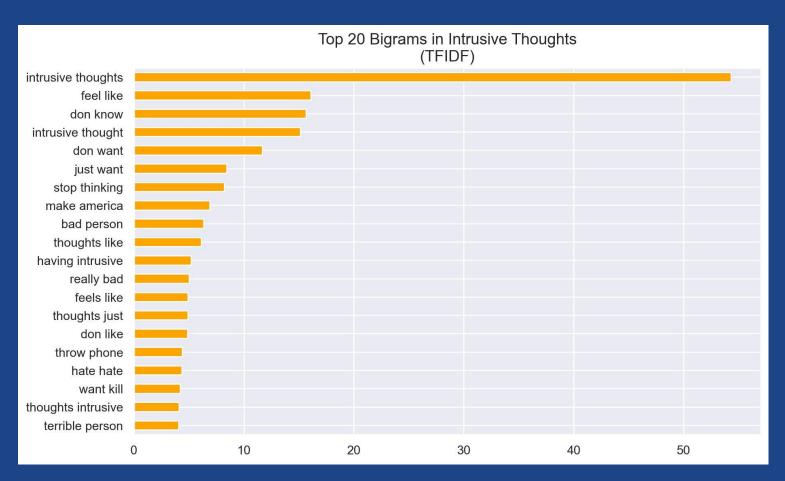
Sentiment Intensity

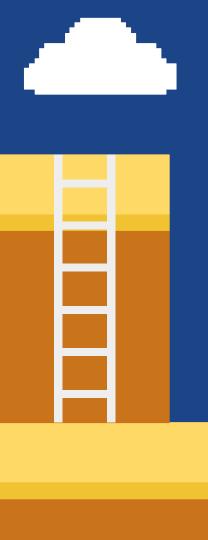


Shower Thoughts Bigrams



▶ Intrusive Thoughts Bigrams ◀







Modeling





96.5%

Test Accuracy w/ CountVectorizer, Multinomial Naive Bayes (bigrams and kept stop words)







Accuracy

Train: 98.2%

Test: 96.5%

Difference: 1.6%



Recall

96%



Precision

Test: 97%



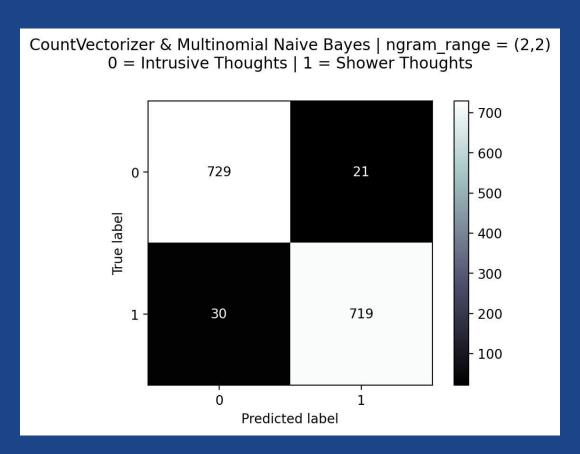
F1 Score

Test: 97%



Confusion Matrix









4.0 Recommendations

- Iterate to stay up to date
- Conduct more controlled clinical research w/ Al
- Consider the individual consequences in policy-making

THANKS!

Any questions?

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