

Classifying Mental Health: The Reddit Proxy

Bryan Ross

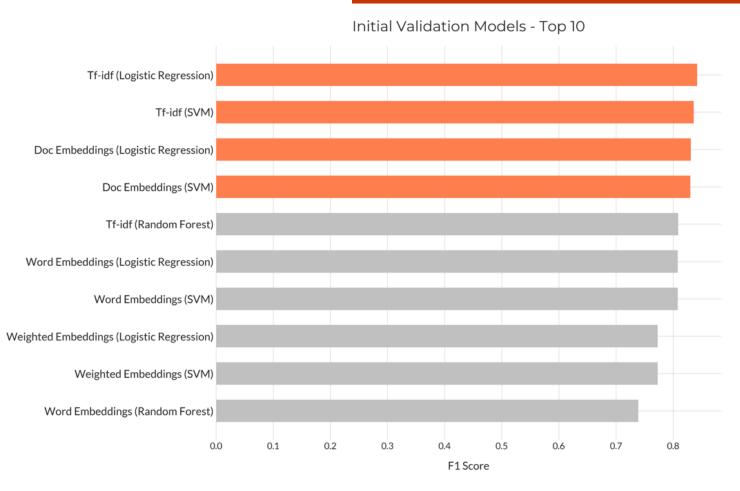
IMPORTANCE

- Patient insights outside of appointments
- Enhancements in:
 - O Diagnostic screening
 - O Treatment progression
 - O Risk prevention

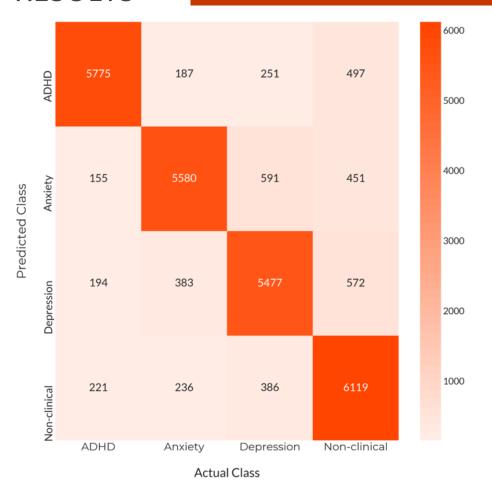
METHODOLOGY



SIMPLEST IS BEST



RESULTS



• Biggest strength: non-clinical

Some struggles with depression & anxiety

O Highly nuanced diagnostically

Mental Health Language Classifier

This is not meant to be a diagnostic tool.

Description

Trained on over 135,000 Reddit posts, this model classifies text into 1 of 4 groups: ADHD, anxiety, depression, or non-clinical. This current application displays the probabilities for each. For more information on the data and methods behind the model, feel free to check out my <u>Github</u>, or <u>connect with me directly</u>.

Instructions

How are you feeling? Write whatever is on your mind.

Things aren't going very well. I'm just not enjoying the same things that I used to, and I don't have any energy.

SUBMIT

RESET

Text Analyzed

Predictions

- 1. Non-clinical: 0.0%
- 2. Depression: 0.0%
- 3. ADHD: 0.0%
- 4. Anxiety: 0.0%

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Instructions

How are you feeling? Write whatever is on your mind.

I'm doing great|

SUBMIT RESET

Text Analyzed

Predictions

- 1. Non-clinical: 0.0%
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- 4. Anxiety: 0.0%

FUTURE WORK

Expand disorders

• Fine-tune custom embeddings, collect more data

• Explore other pre-trained embeddings

THANK YOU!

Email: Bryan.ross.529@my.csun.edu Github: https://github.com/Rossbj92

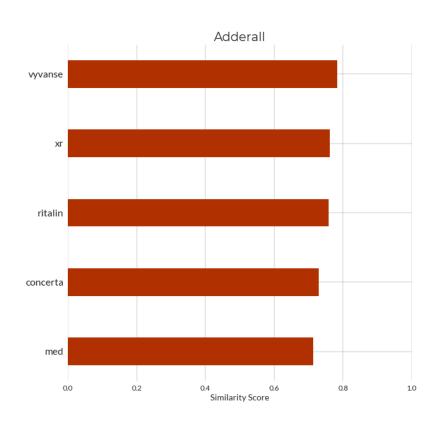
<u>Linkedin:</u> https://www.linkedin.com/in/bryan-ross-07871452/

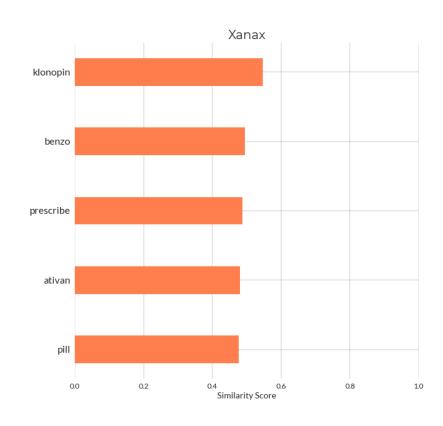
<u>App:</u> https://mental-health-classifier.herokuapp.com/

APPENDIX

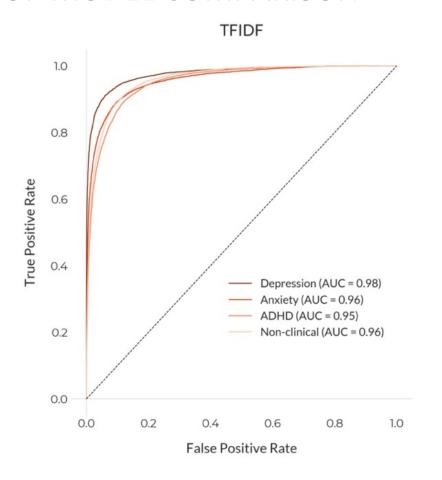
FACE VALIDITY

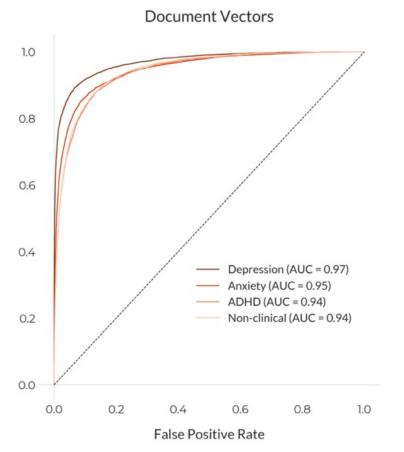
Medication word similarities: like are with like.





TOP MODEL COMPARISON





Credits

Presentation templated by Slidesgo, icons by Flaticon, and infographics & images by Freepik