



Our Educator's Mental Health and Well-being

Better Help's Educator Alliance Initiative



Presentation Contents

Below is a brief overview of what will be discussed during this presentation

Introduction	Problem statement review	
Sources	A brief overview of the data source & other outside sources	
Outside Research	Discuss outside research	
EDA / Modeling Process	odeling Process Description of EDA and the modeling process	
Winning Model	Model In depth review of the winning model	
Conclusion	An executive summary of all materials	



Introduction

- Teacher Burnout
- Who is **Better Help**?
- Educator Alliance Initiative





Problem Statement

Once the Educator Alliance Initiative goes live, Better Help is expecting a mass influx in inquires.

Those in the inquiry intake department will need to be able to quickly and effectively determine if that customer is a candidate for program.

Better Help has enlisted my assistance in building a model that will be able to read any incoming inquiry and predict whether or not to place that customer into their new initiative with at least 90% accuracy.

Sources

01Psychology Today

02 Better Help 03 ValuePenguin

04<u>Mira</u>

05 Think Impact 06 Reddit

<u>r/teaching</u> <u>r/mentalhealth</u>

Outside Research

- 500,000 educators are uninsured
- Average cost of a single therapy session:
 - \$138 \$300
- 1 hr session / week:
 - ~ \$1,200 / month

- 51% of teachers fear for their mental and physical health when teaching.
- 90% of teachers reported that their feelings of burnout were a serious problem for them and their job.
- 30% of new teachers are quitting their job within 5 years of teaching.





r/teaching

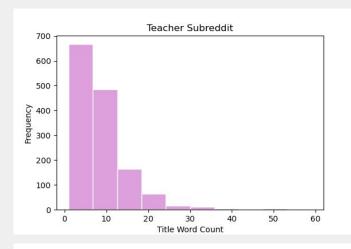
- Community for educators
- Over 120k members.

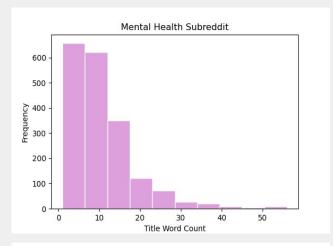
r/mentalhealth

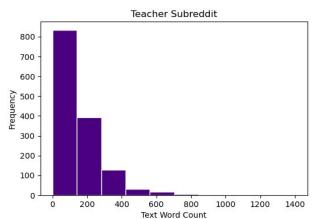
- Forum to discuss, vent, support and share information about mental health, illness and wellness,
- Over 417k members.

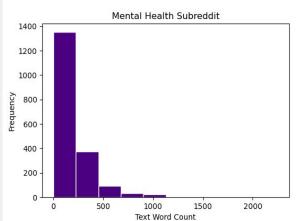




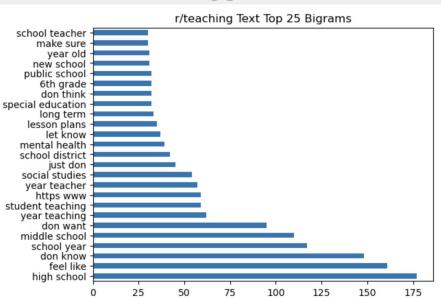




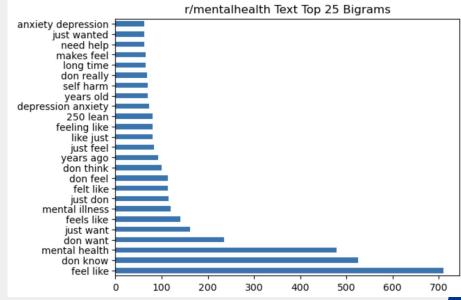


















Teaching Title	Teaching Text
0.00915549295774648	0.313248661971831

Mentalhealth	Mentalhealth
Title	Text
-0.08286455361859	-0.02922234548335
482	9734

Modeling Process

Titles Only Models:

- o CV, MNB
- o CV, LR
- o TV, MNB
- o TV, LR
- Text Only Models:
 - o CV, MNB
 - o CV, LR
 - o TV, MNB
 - o TV, LR

- Title & Text Models:
 - o CV, MNB
 - o CV, LR
 - o TV, MNB
 - o TV, LR



The Winning Model

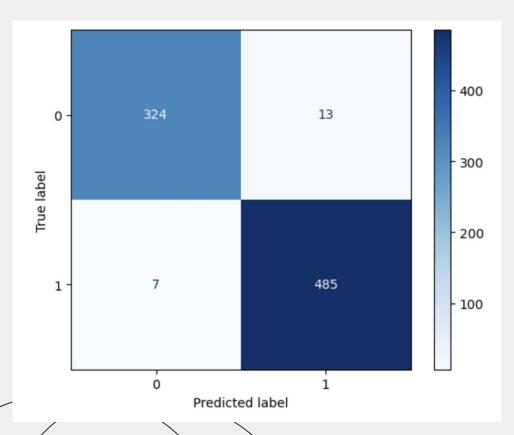
Parameters

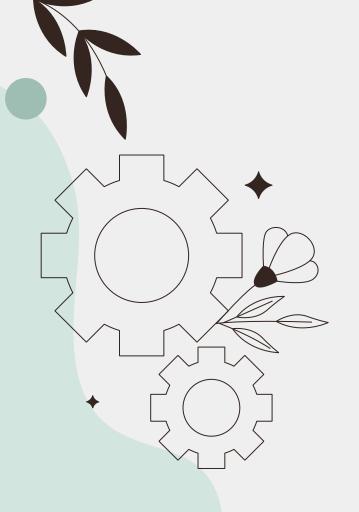
Scores

Pre-Processor	TfidVectorizer	Training Sco
Model	MultinomialNB	Testing Scor
Dataframe	Title & Text combo	
n_gram range	(1,2)	
stopwords	english	

Training Score	0.9762
Testing Score	0.9759

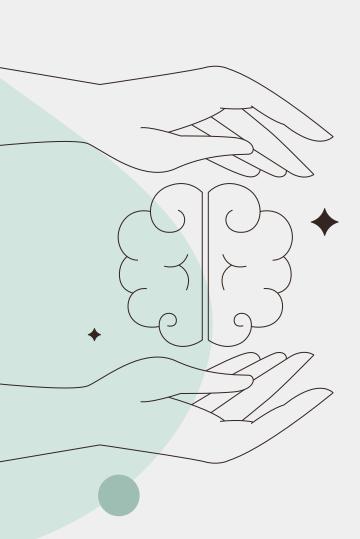
Prediction Confusion Matrix





Human Error?

"Giving up. I quit my position and I don't know what's next. The pressure of this job is tolerable, if I was working towards something. As it is now, I feel like I am joining a game of Monopoly 20 turns after everyone else. Just roll the dice and pay rent, that's my only option. I just want to stop. I want to say it's a mental health crisis, but the reality is, my poor mental health comes from social and financial poverty. Hove Teaching. Hove the job, really. But it's hard to keep rolling the dice, knowing I can't buy shit. I just work and work and pay for other people's shit. The only rent free spot on the board is jail. I've been thinking about how I could save for retirement and my conclusion is I will not be able to retire. No matter how much personal wealth I accumulate, without a house I will be relying on the generosity of others when I am too old to work. There is not future in this and I hat being told to roll the dice by people who own everything on the board. Just roll the dice, that's how you win! They say unsarcasticly. I want to give up. So I gave up. Now I am depressed."



Thank You!

Do you have any questions?

