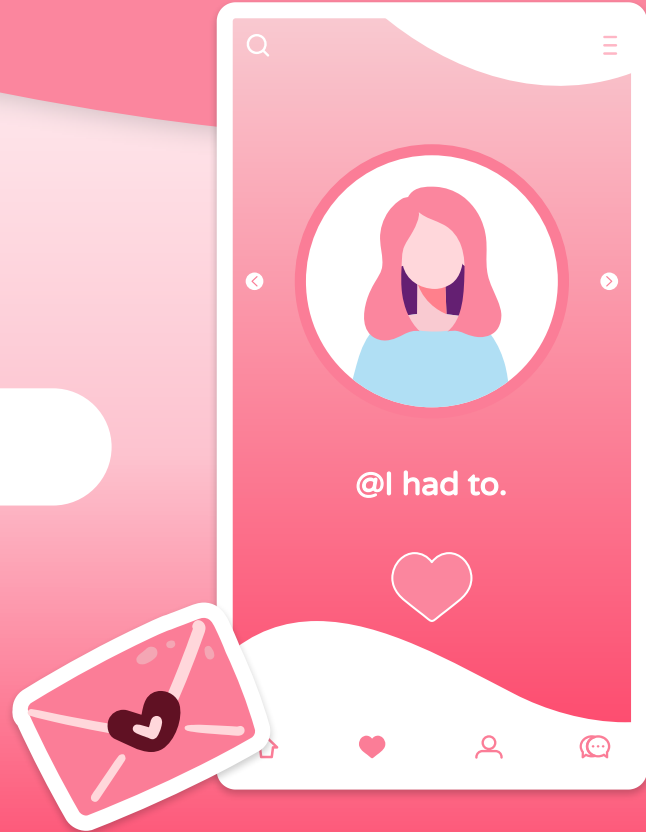


# Hungry or Horny.

By, Robert Huey



Toolkit



## Problem statement.

I was hired by a dating app company to look at an upcoming partnership with a food delivery app to see if they should create a collaboration event to see if people were just hungry for love or lunch. This gave me task of gathering some data from two popular subreddits, "askculinary" and "askdating" to look at the verbage used between both and to create a model that will help differentiate between love or food!



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Going over what I found in the beginning.

## 03 Model Evaluation

Going over the different model performances.

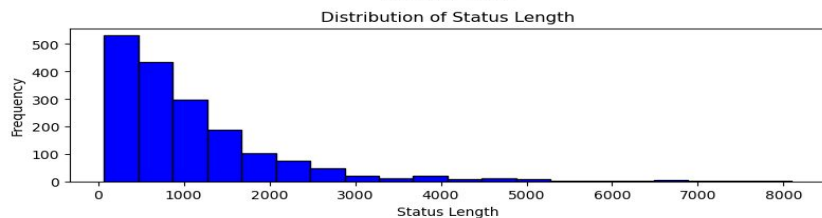
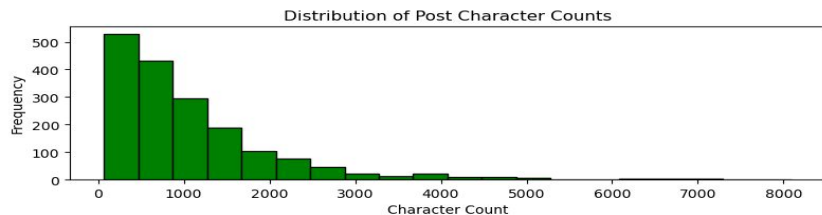
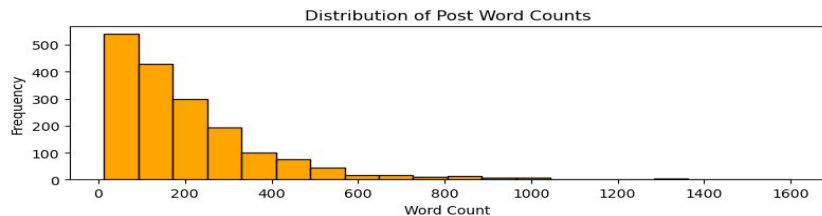
## 02 Discoveries

What I discovered with the phrasing.

## 04 Conclusion



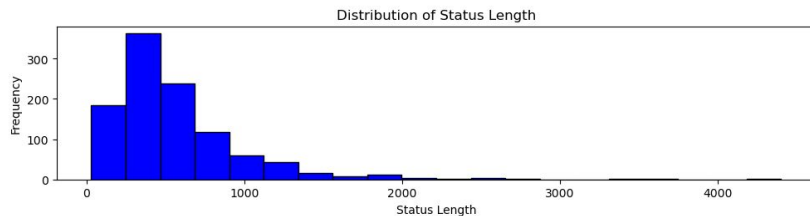
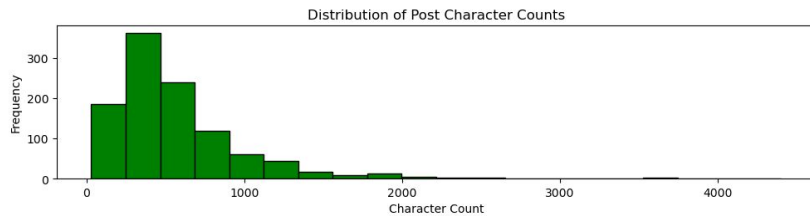
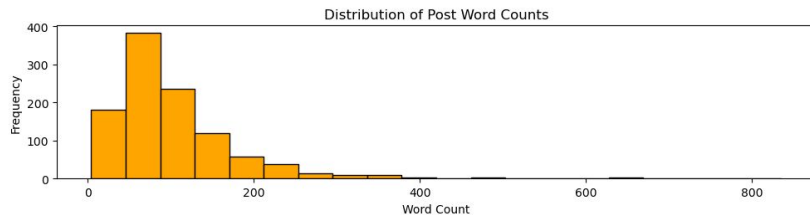
# Date EDA!



We can see that in the dating subreddits focused on shorter words and posts 300 words and below.

I wonder what ask culinary will look like?

# Food EDA!



We can see that in the food subreddits focused on longer words and posts 200 words and below.

Lets see what insights we get when we combine the two!

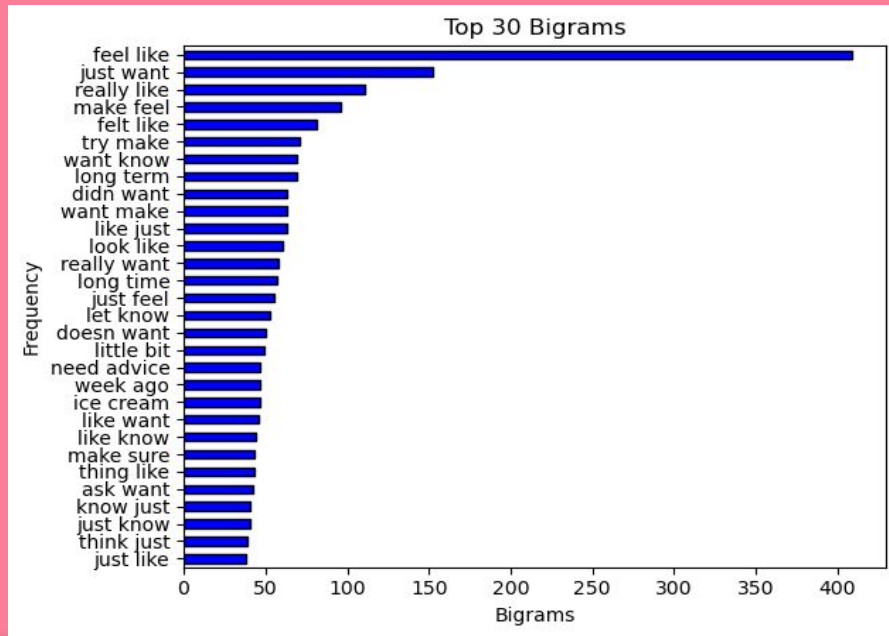


# 62.6%

Our baseline score.

# Discoveries

After I removed stop words and keywords like, dating, relationship, temperature, water, boiling, etc... We were left with a lot of phrases that could be used in both instances of asking for relationship advice or food!





# Models Evaluations

Decision Tree	Boosted	Bagging	Logistic Reg
62.5%	74.3%	86.4%	89.5%
- Performed the worst due to irregular patterns it picked up.	- Removed keywords along with stop words so outliers being weighed had less of an effect.	- After adding 50 random trees it cleared up the irregular patterns and gave a better score.	- The BOSS.





## Conclusion

That we have more in common with how we talk about basting our Thanksgiving Turkey and our dating lives that we may realize. The models that we ran show that we have enough overlap in our dialogue when it comes to asking for help, that we are hungry for something! Based on the word counts, reddit activity, and repeated words being used it looks like its for love.





# THANKS!

Do you have any questions?

[givemea2@freepik.com](mailto:givemea2@freepik.com)

+91 620 421 838

[hopeyouhadalaugh.com](http://hopeyouhadalaugh.com)



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