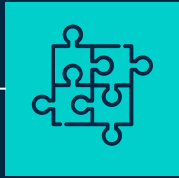


The background is a dark blue gradient. It is decorated with various geometric elements: small squares in white, teal, orange, and pink, and thin white vertical lines of varying lengths. These elements are scattered across the slide, creating a modern, tech-inspired aesthetic.

SUBREDDIT NLP MODELING

Created by Veda Patel

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Cleaning, exploratory
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Background

What is Reddit?



MY SUBREDDITS

r/AskWomen

- Has 5.3m members
- Rules say a question must be posed



AskWomen: Questions about women's thoughts, lives, and experiences

r/AskWomen



r/AskMen

- Has 5.3m members
- Rules say to have a question in title



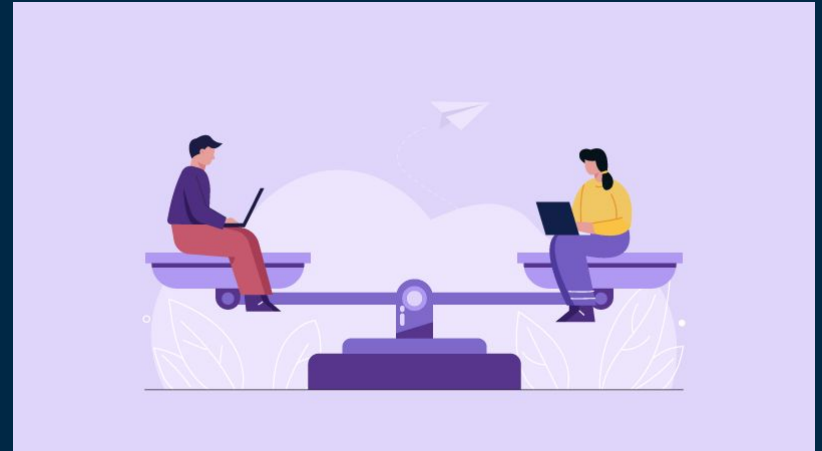
We don't know, but we'll answer anyway

r/AskMen

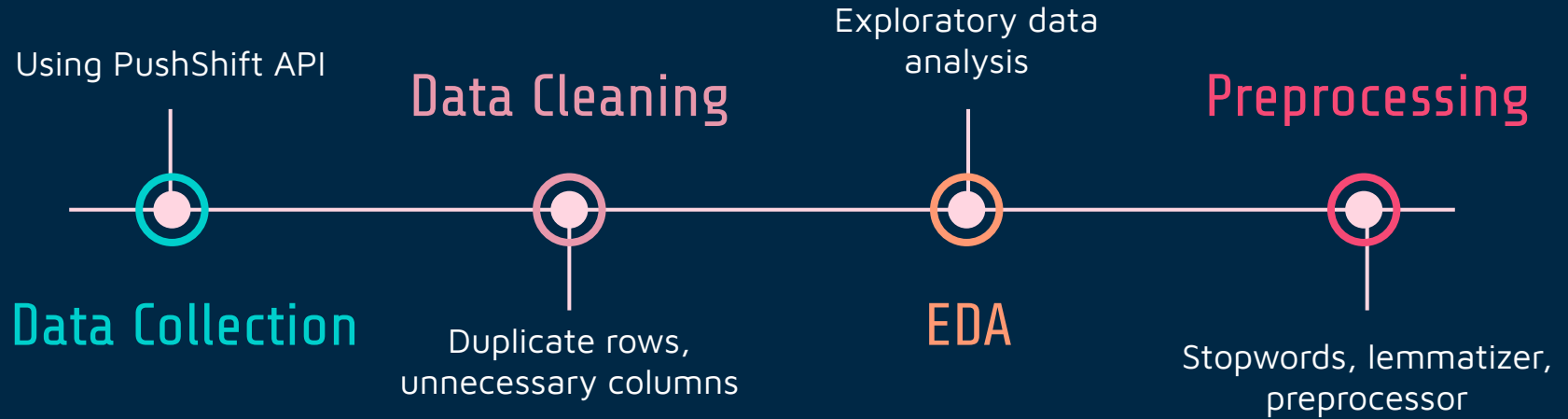
Problem Statement

WHY AM I CONDUCTING THIS PROJECT?

- Self interest
- Social experiment

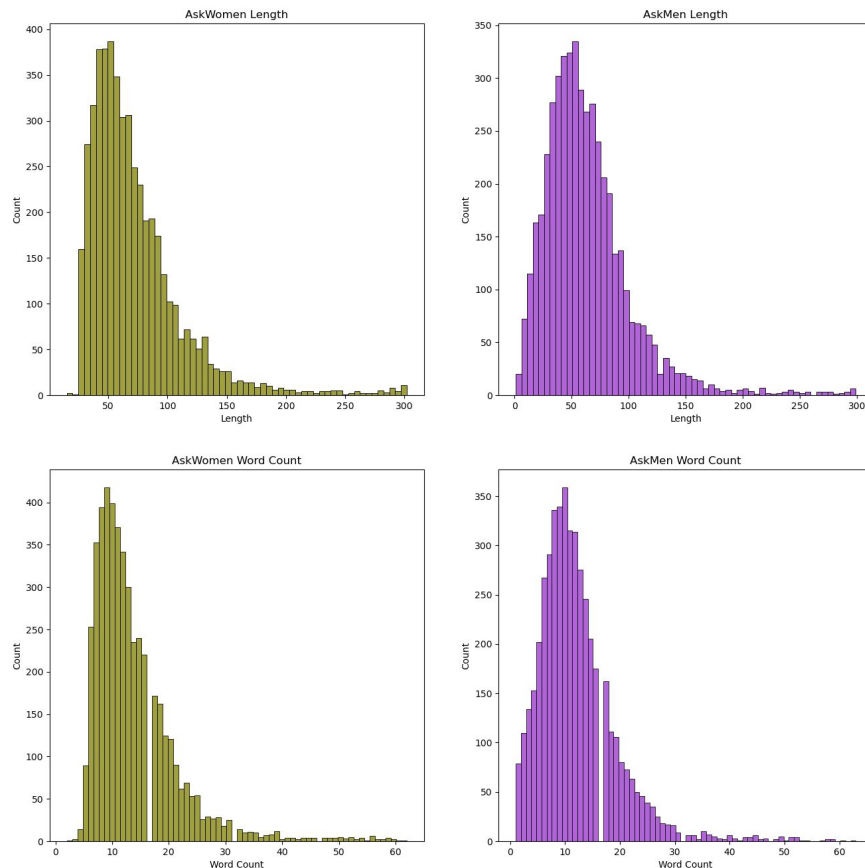


THE PROCESS

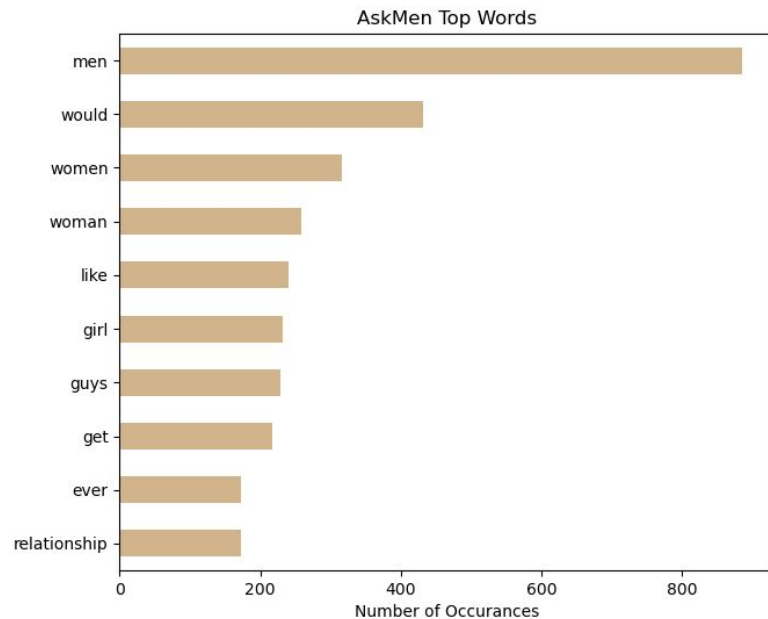
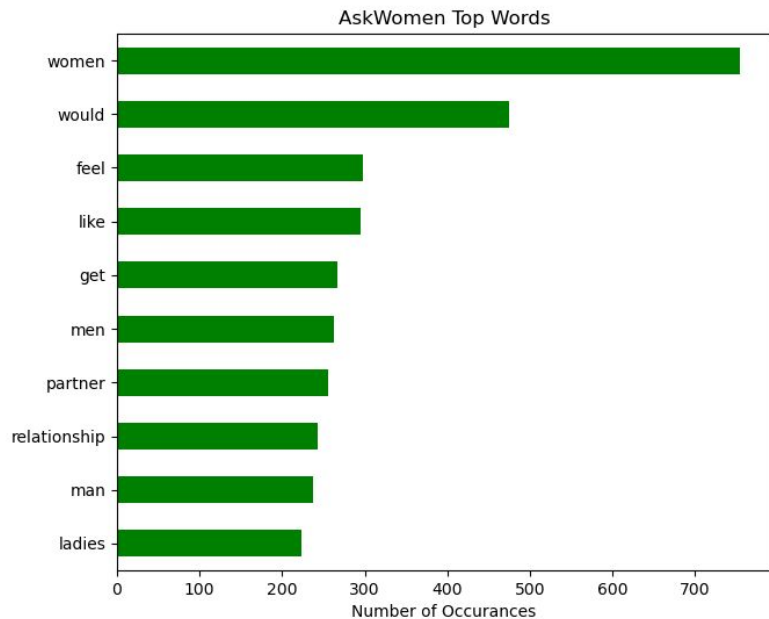


From EDA

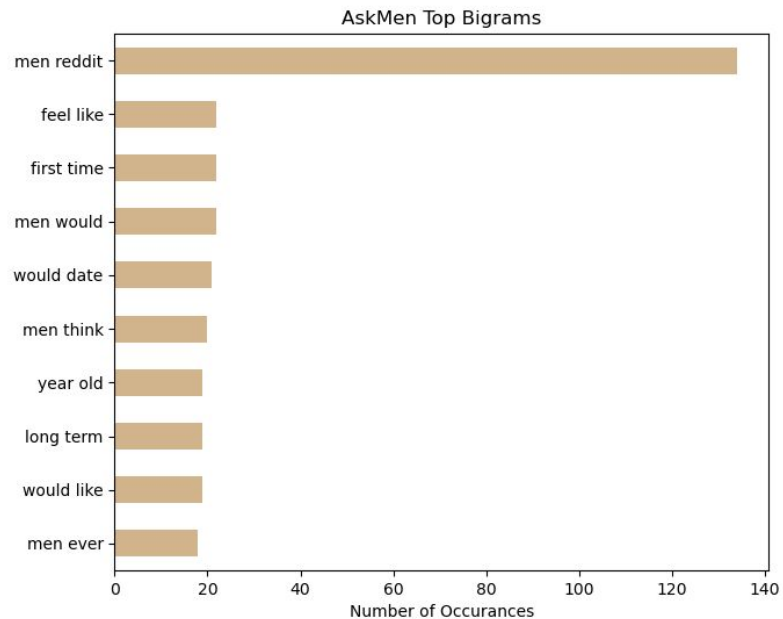
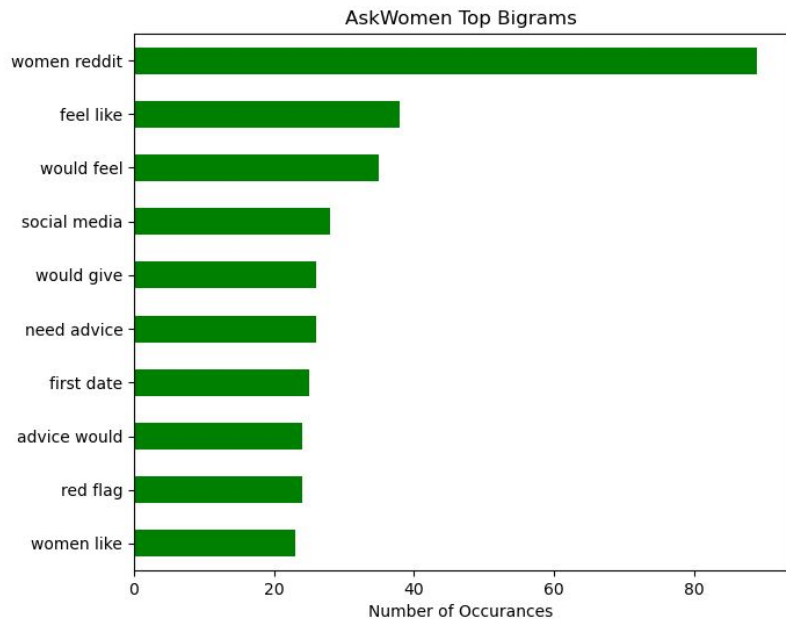
Character & Word Count Distributions



From EDA



From EDA



Bigrams after adding to stopwords

social media	28
advice give	28
need advice	26
first date	25
red flag	24
birth control	23
year old	22
best friend	21
first time	21
anyone else	20
best way	20
long take	18
one thing	15
long term	14
date guy	13
please help	12
find attractive	11
relationship someone	11
dating apps	10
body hair	10
dtype: int64	

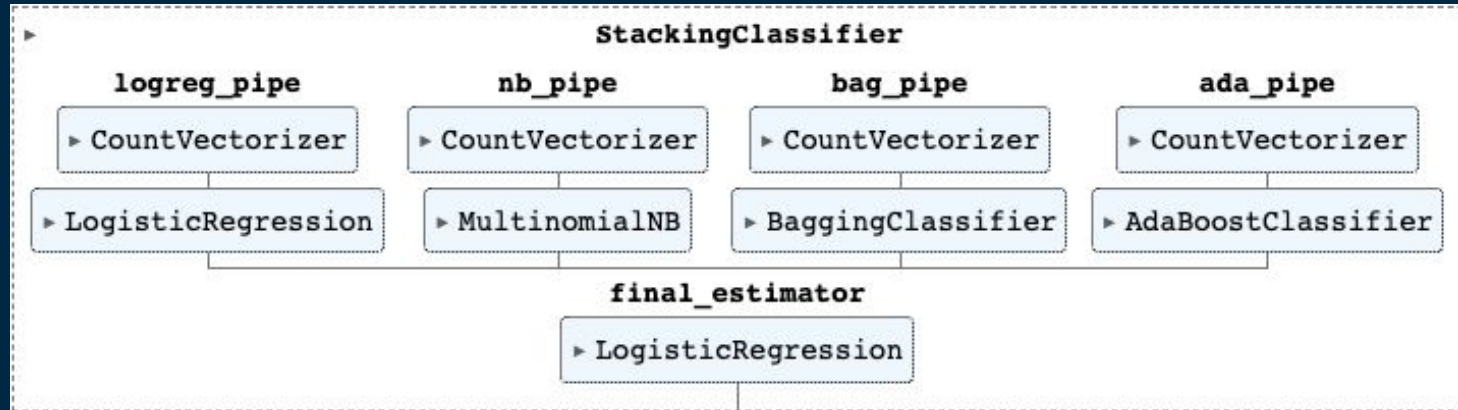
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year old	19
long term	19
best way	18
anyone else	18
first date	17
one thing	17
best friend	17
red flag	17
need help	17
need advice	14
guy friend	12
social media	12
reddit ever	11
dating apps	11
dating app	10
advice give	10
even though	10
wife girlfriend	10
someone else	10
dtype: int64	

MODELING

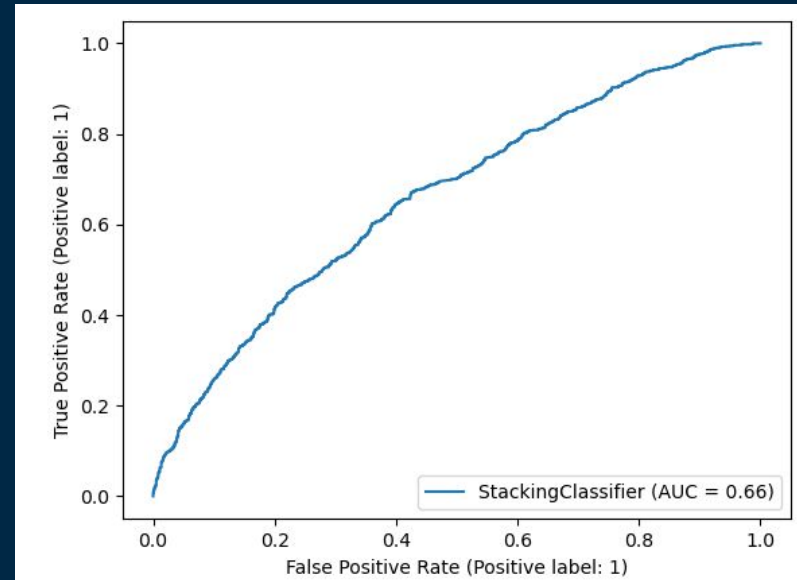
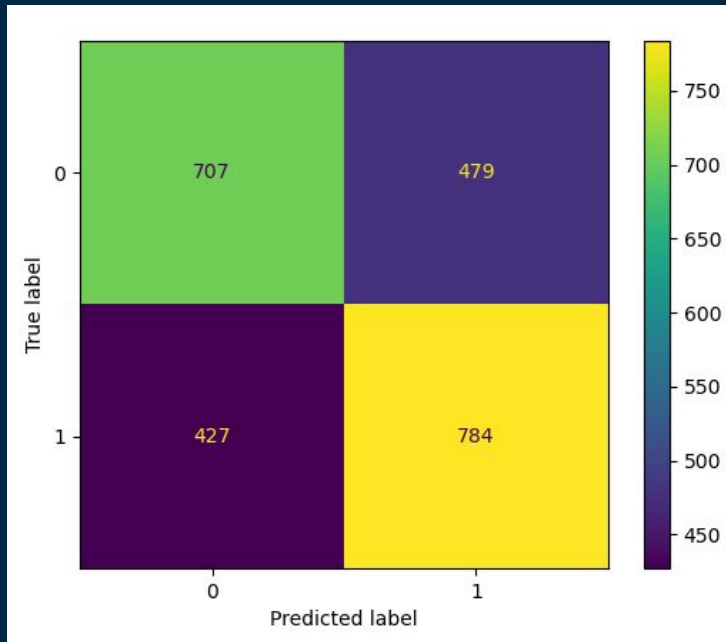
Logistic
Regression

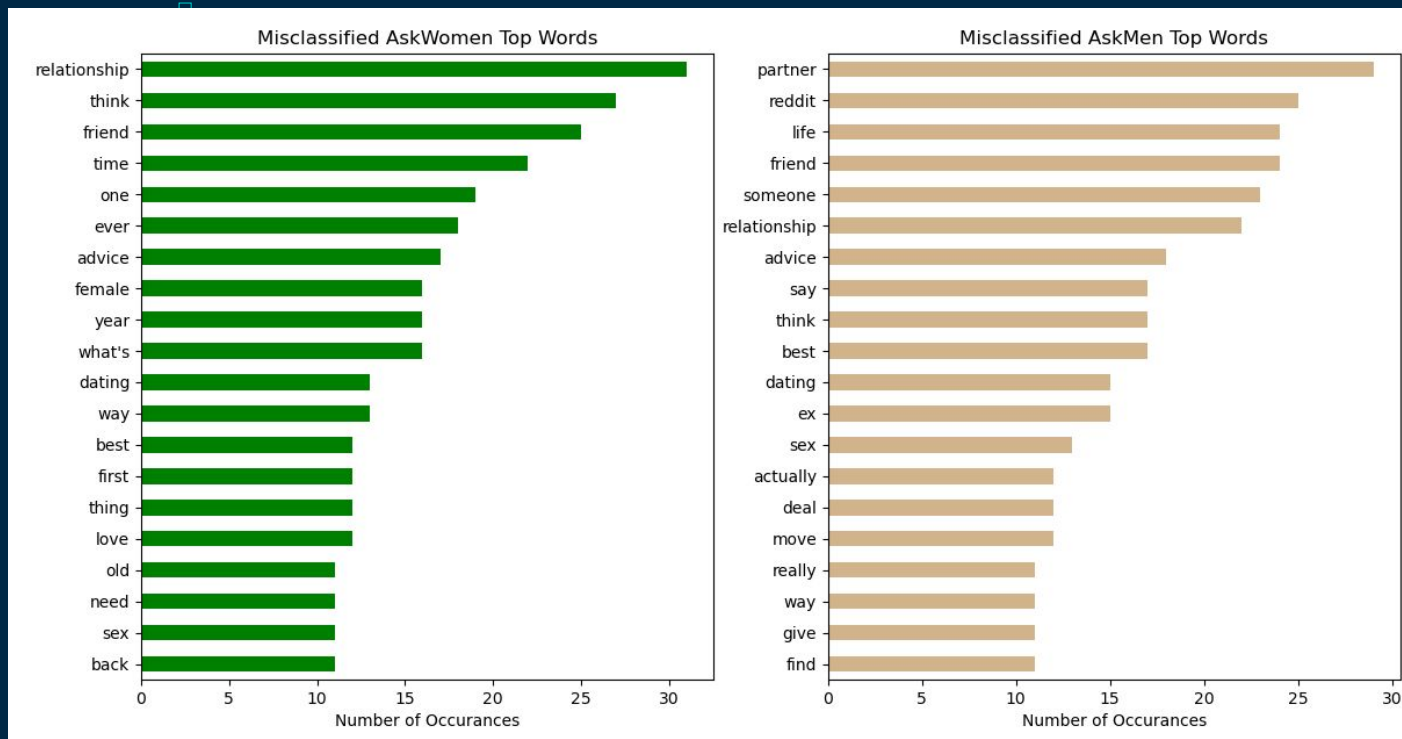
Naive Bayes

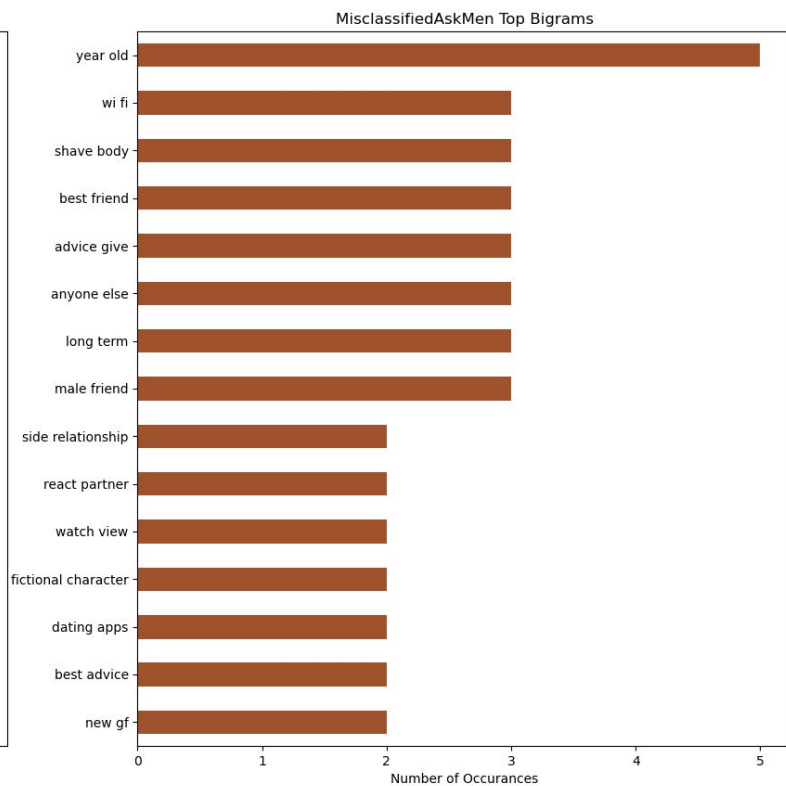
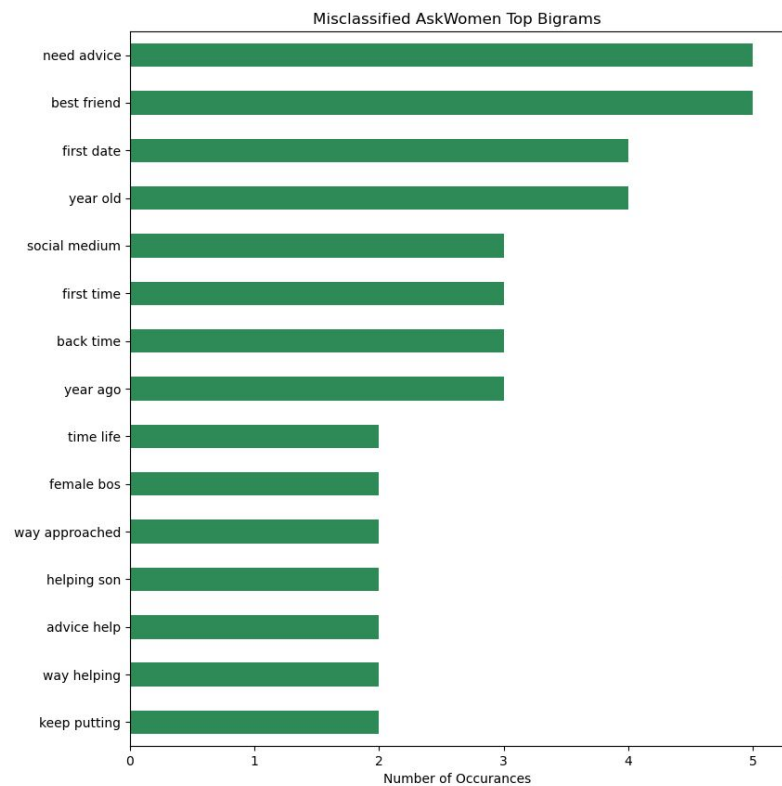
Random
Forest



Confusion Matrix and Roc Curve







CONCLUSIONS & RECOMMENDATIONS

My Model



Future Research



My Problem Statement



Do you have any questions?

THANKS

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