



TINDER: LOVE IT OR HATE IT

Eduardo Ortiz, Marci Morrell, and Leti
Rinaldini



Presentation Overview



The Data



Project Goal



General Trends



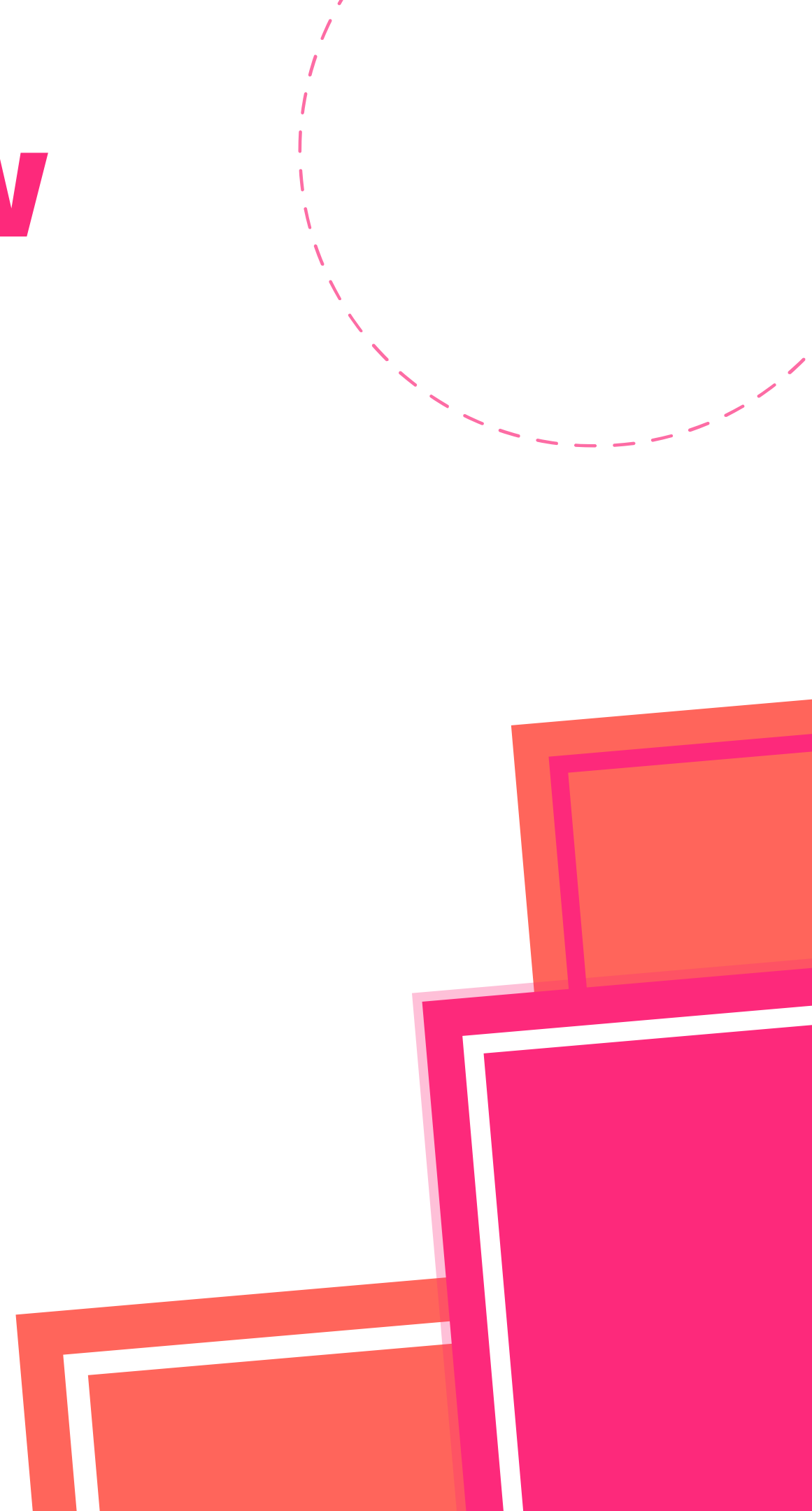
Analyzation



Model



Solutions



The Data

Kaggle Link

- Data from Kaggle
- 24,000 rows of data
- Includes reviews, scores, dates, reply content, username and thumbs up count
- Spans from 2013–2022

Project Goal

Which Rating?

Our goal was to find trends in the data using Neural Language Processing techniques. From there we wanted to create a model that would most accurately predict the users rating based on their text review of the Tinder App.

General Trends



Most scores were either 1's or 5's (Mostly positive and negative not so many in the middle.)



Positive words were more common than negative words



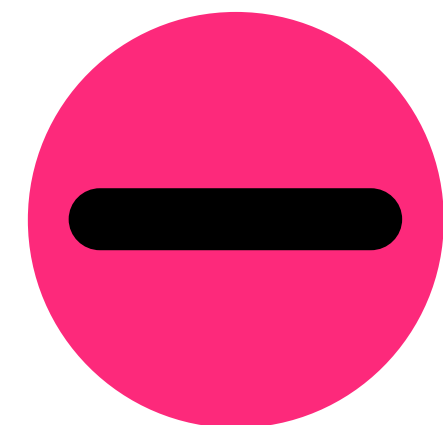
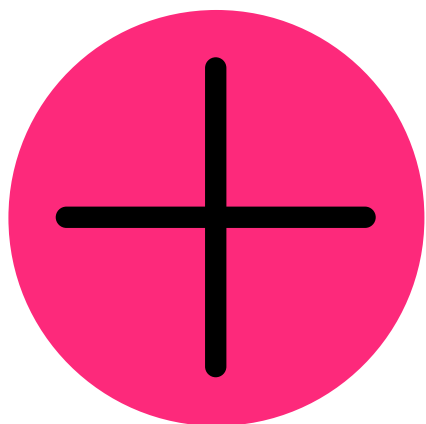
Negative reviews spike in March, and also from 2019–2022



A rating of 1 was the most common rating



Positive Polarity was the most common as well

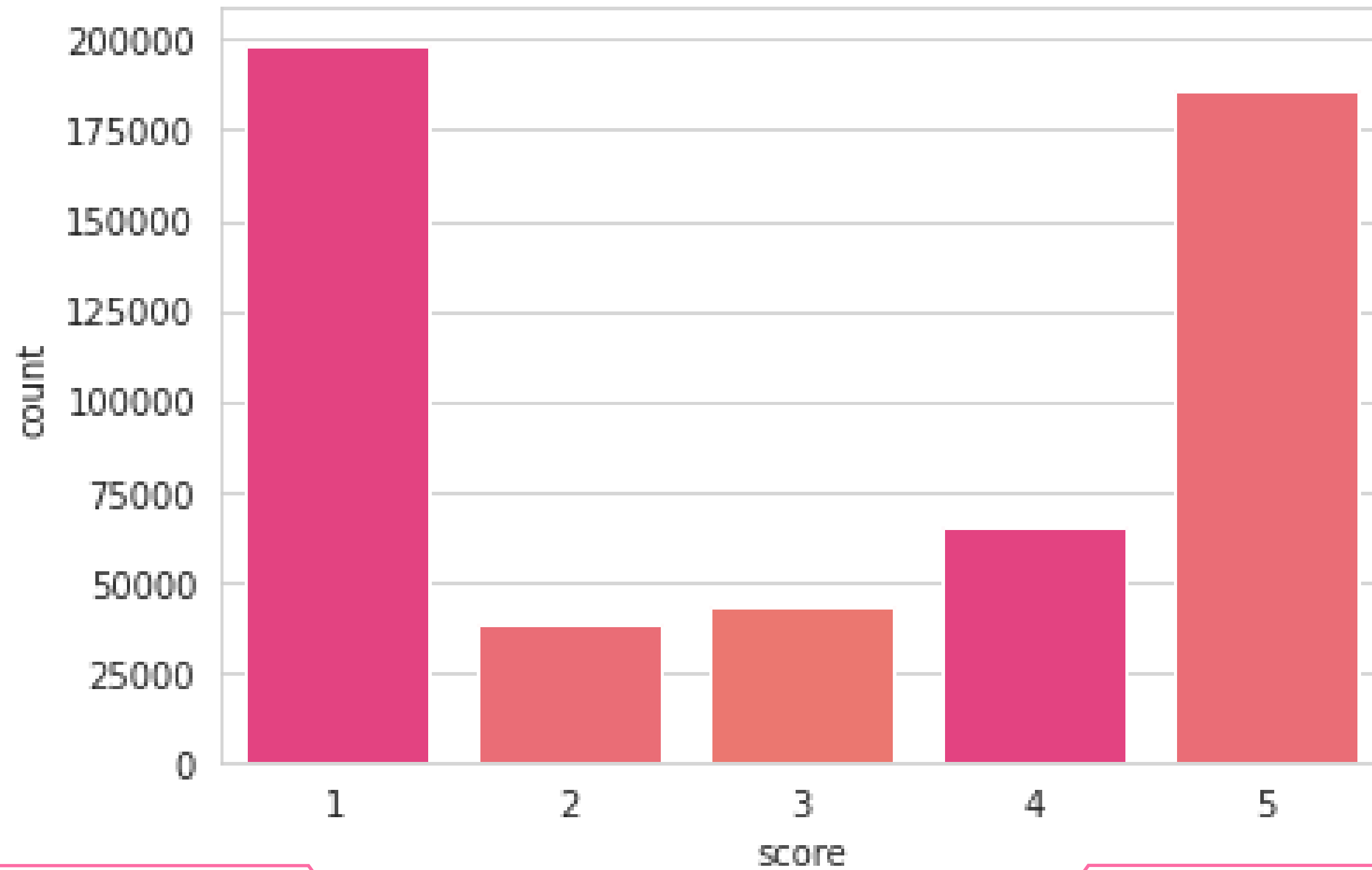


alright' app' Eh' Nice' Good
Great' Average' Gud' ok' Meh'
Cool' bad' Nothing
okay' Fun' Nice good' Awesome'

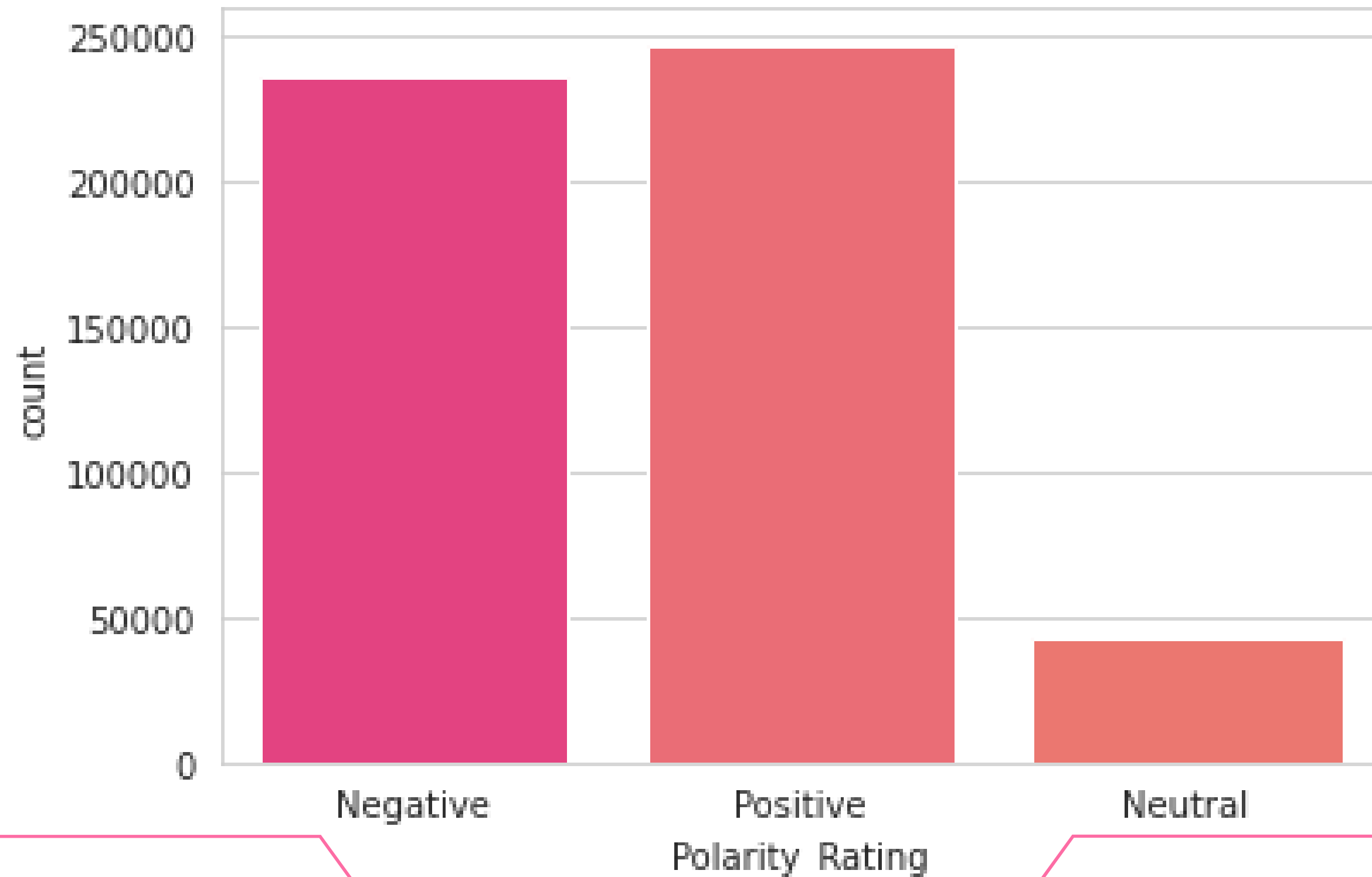
Perfect' Great' app' Love
use' Easy good'
Cool' Wonderful'
Good' bad' Excellent' far
Ok' super' Nice' it'
Fun' Best' Great
Amazing' Awesome' Best

Waste' Worst' Cant
time good' app
Meh' Sucks'
Bad' work' app
Doesnt
in' Worst
ever' Horrible' Terrible' Useless'
Fake'

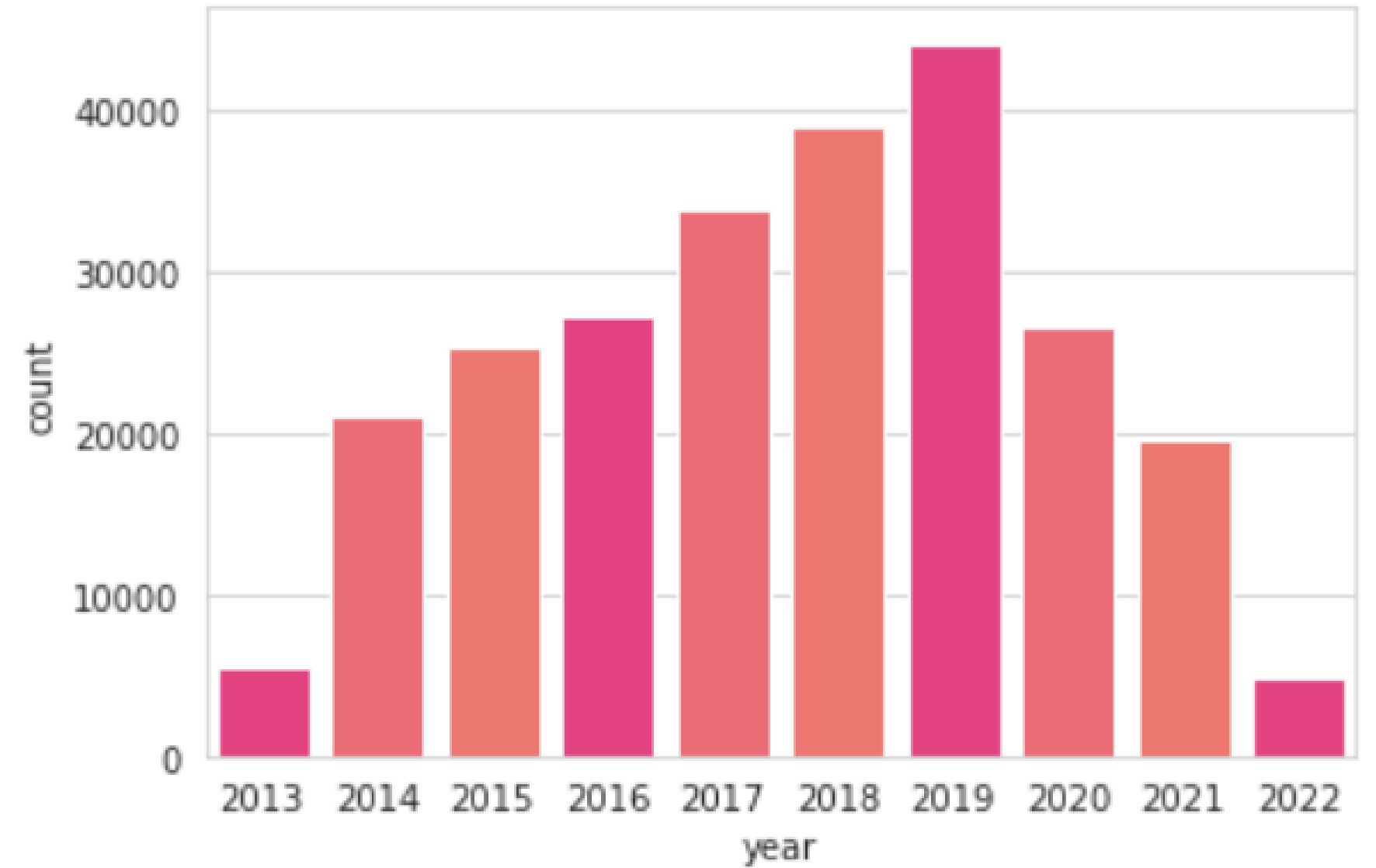
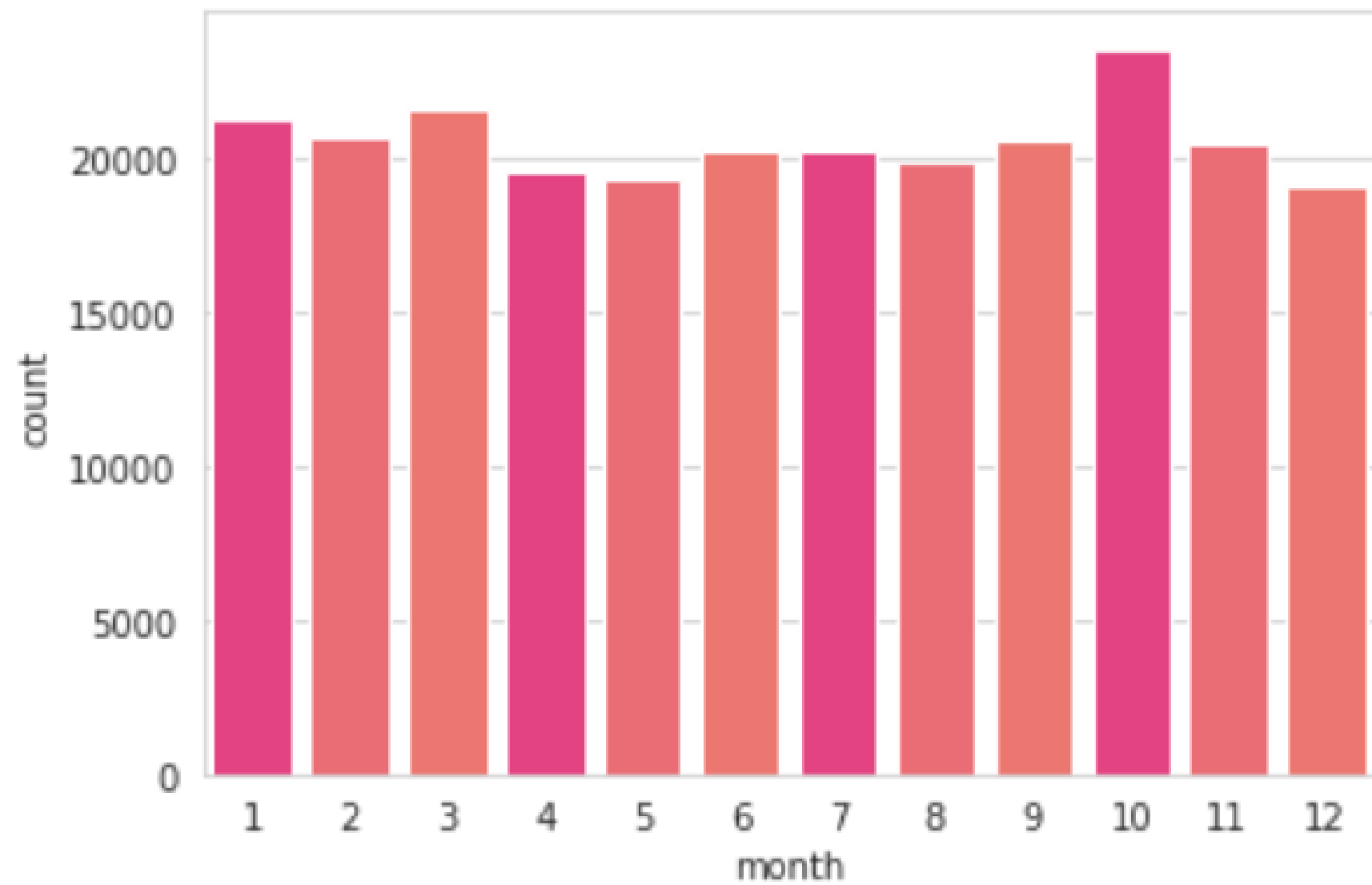
Graph of Score Count



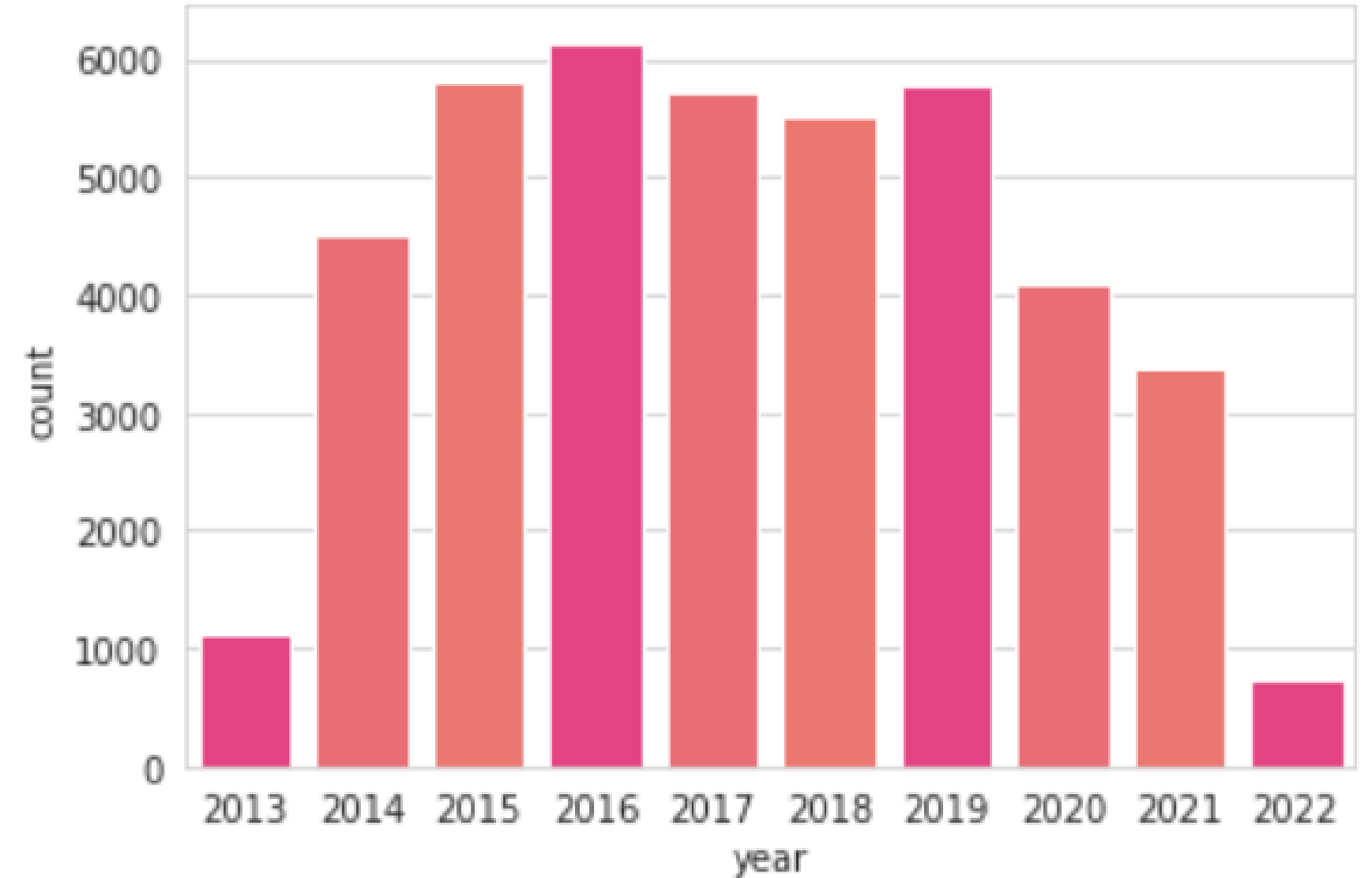
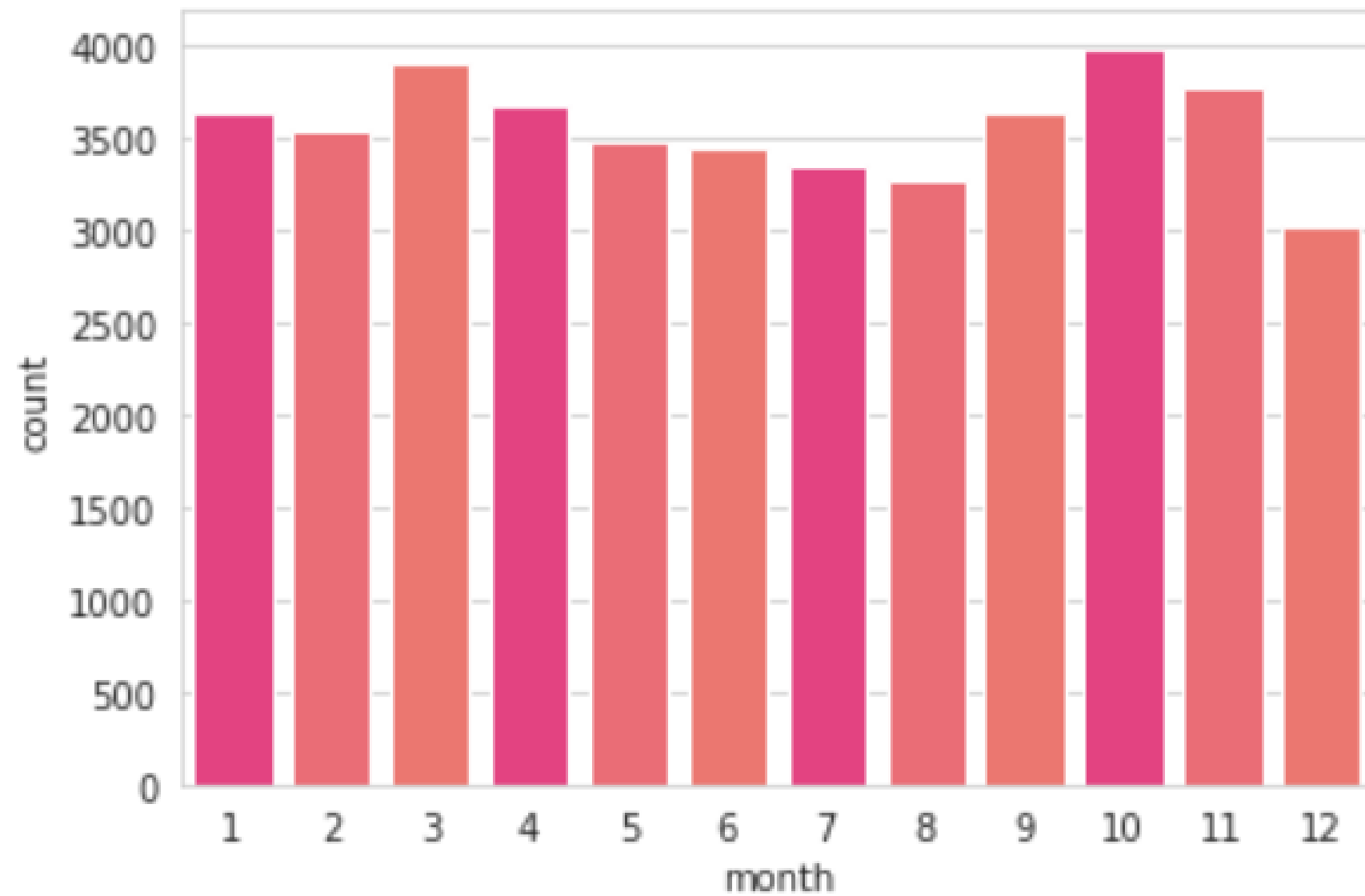
Polarity Rating Count



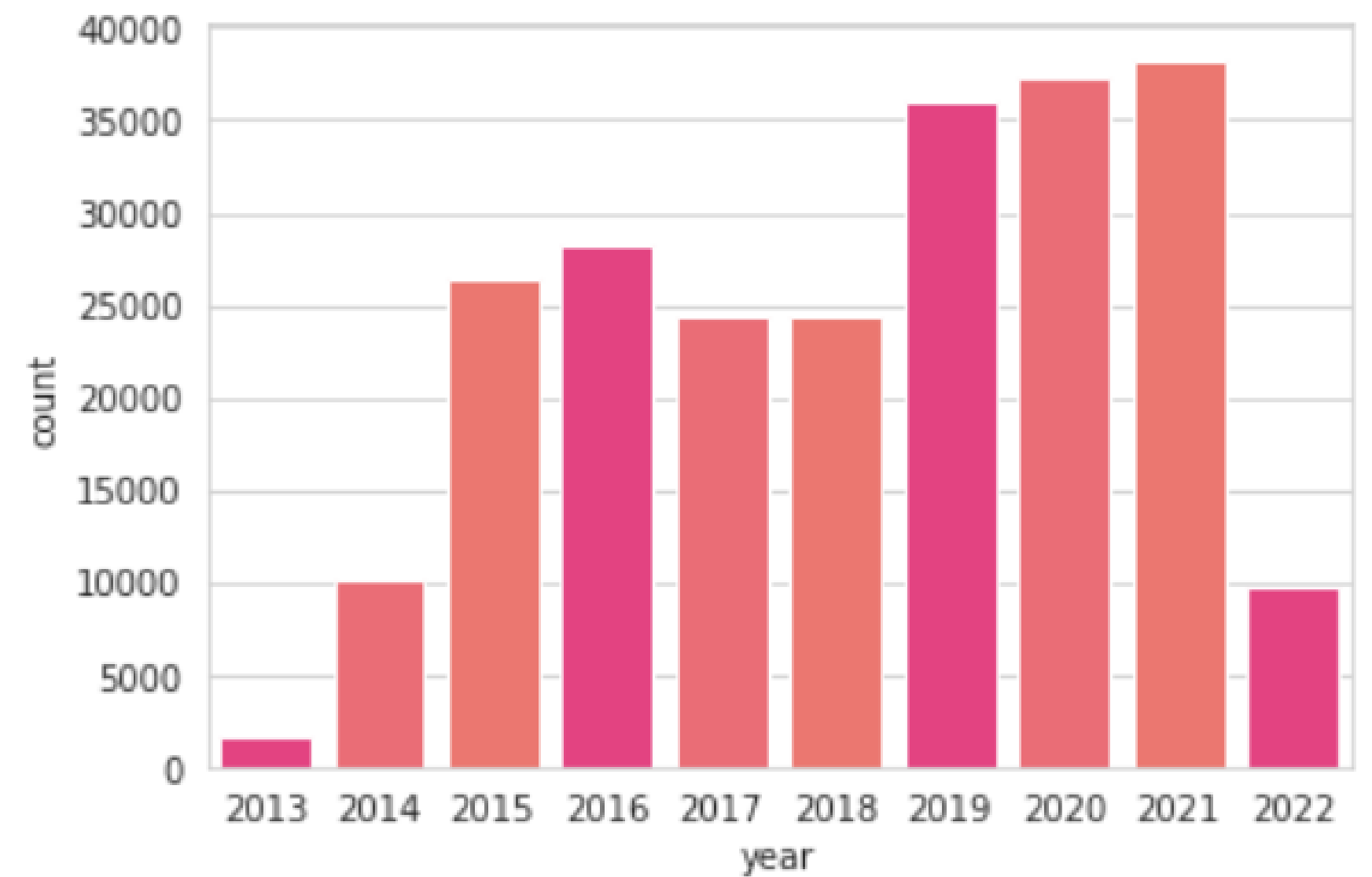
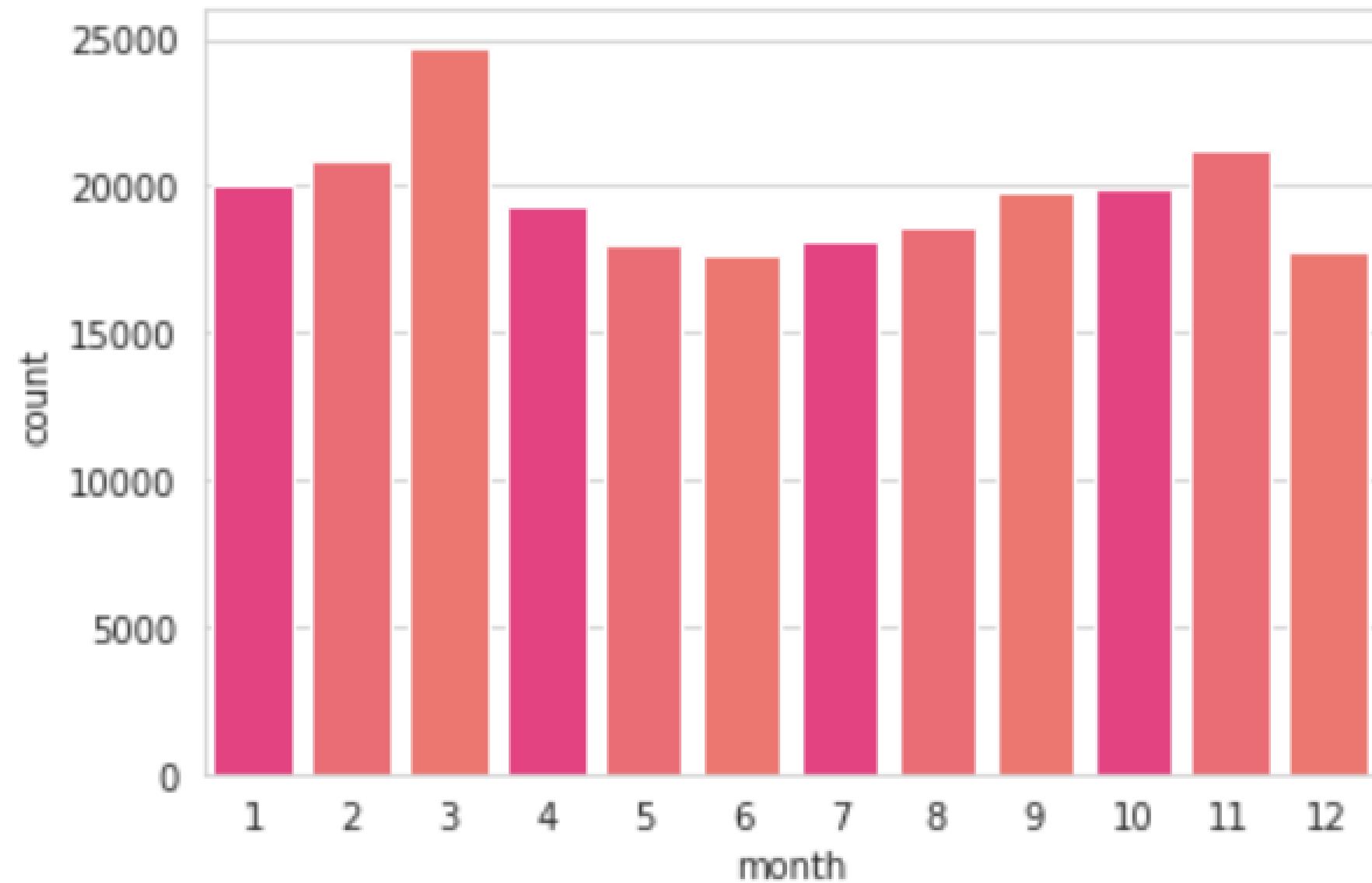
Positive



Neutral



Negative



Model Types



Bag of Words



Random Forest



TFIDF



Logistic Regression



Bag of Words



Remove stop words



Remove emojis



Make punctuation consistent



Count vectorizer



PCA



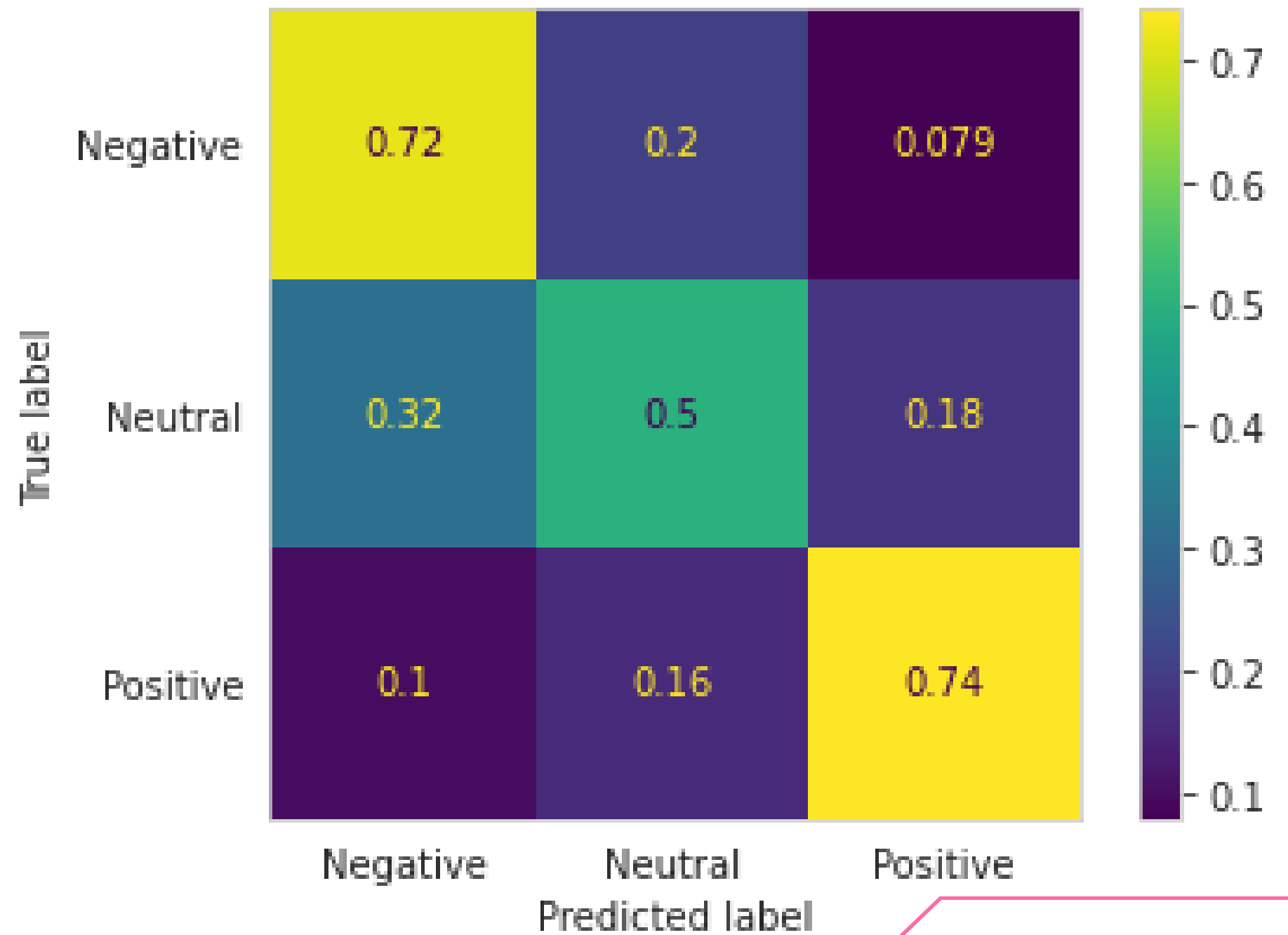
Bag of Words

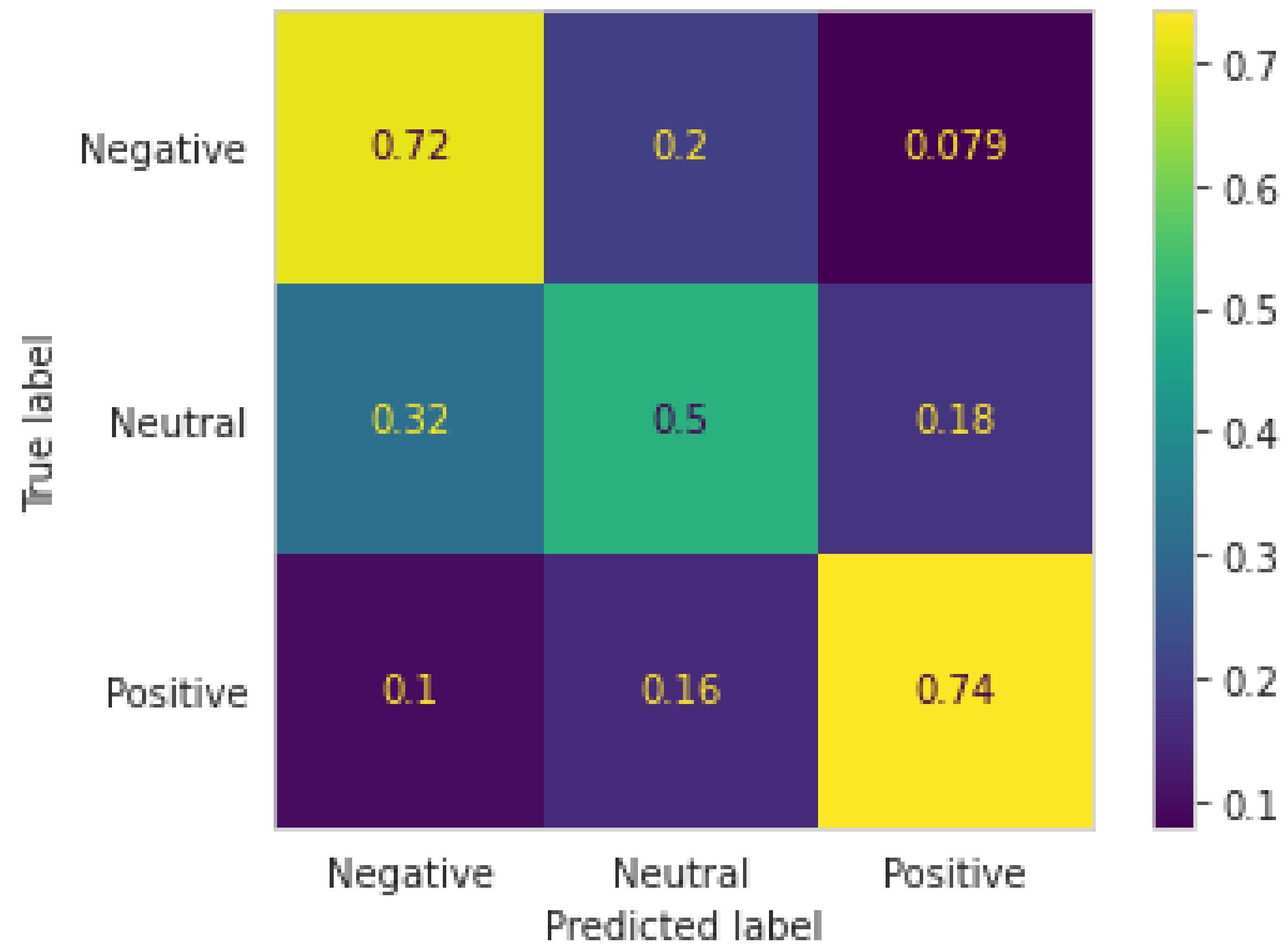


Model predicts polarity



Accuracy of 62%





TF-IDF



Remove stop words



Remove emojis



Make punctuation consistent



TFIDF vectorizer

Logistic Regression



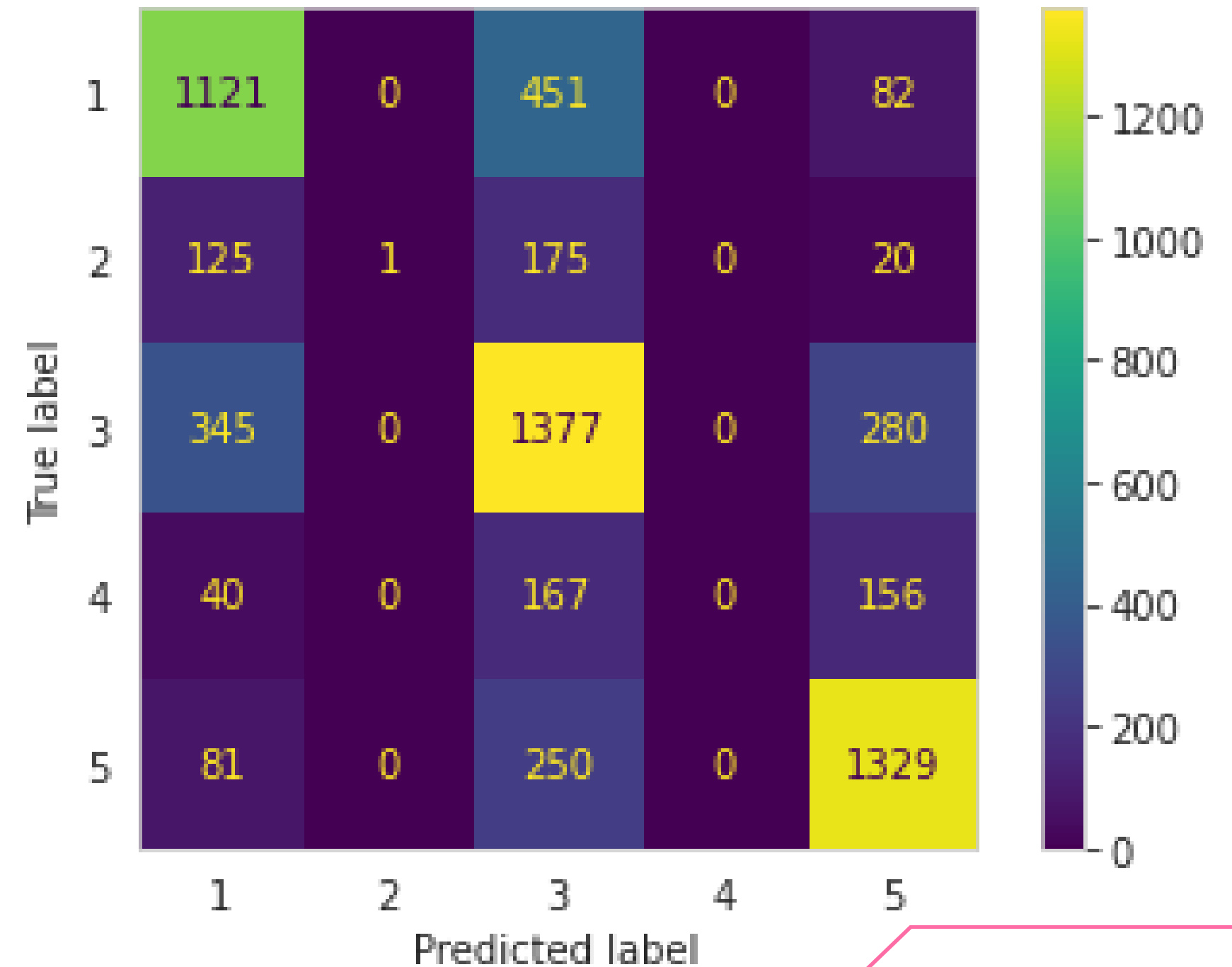
Model predicts Score



Accuracy of about 62%



Does not predict 2 or 4



Conclusions



Tinder had the most user reviews between 2019–2022



Overall, their reviews were more positive than negative so they're on the right track.



When creating a model to predict user satisfaction, it's much easier to predict the extremes than it is to predict the "in-between" reviews



Thank you

**We hope you enjoyed
our presentation.**

Questions?

