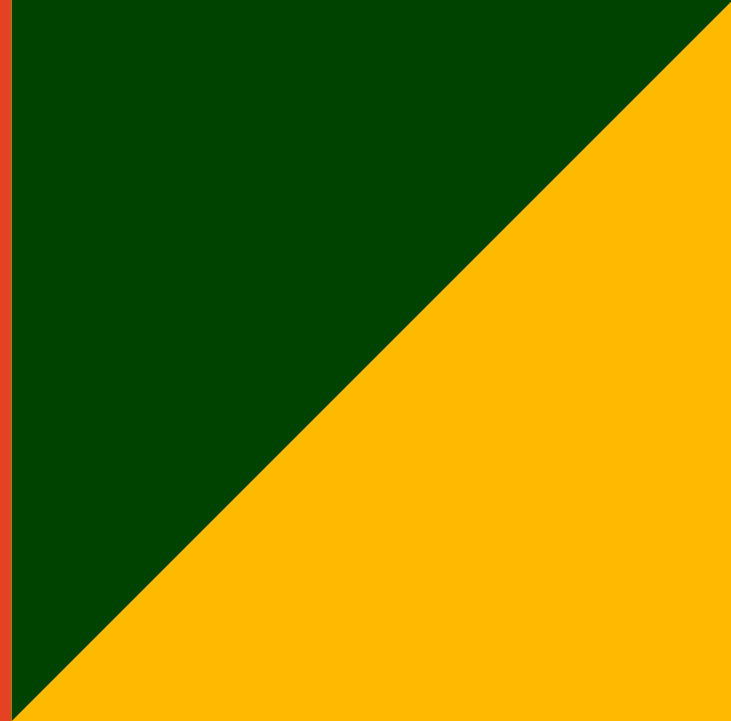
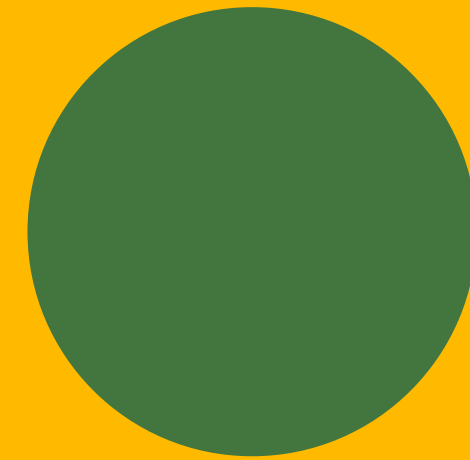
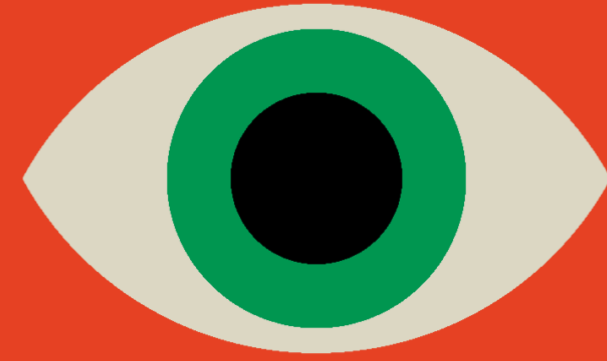
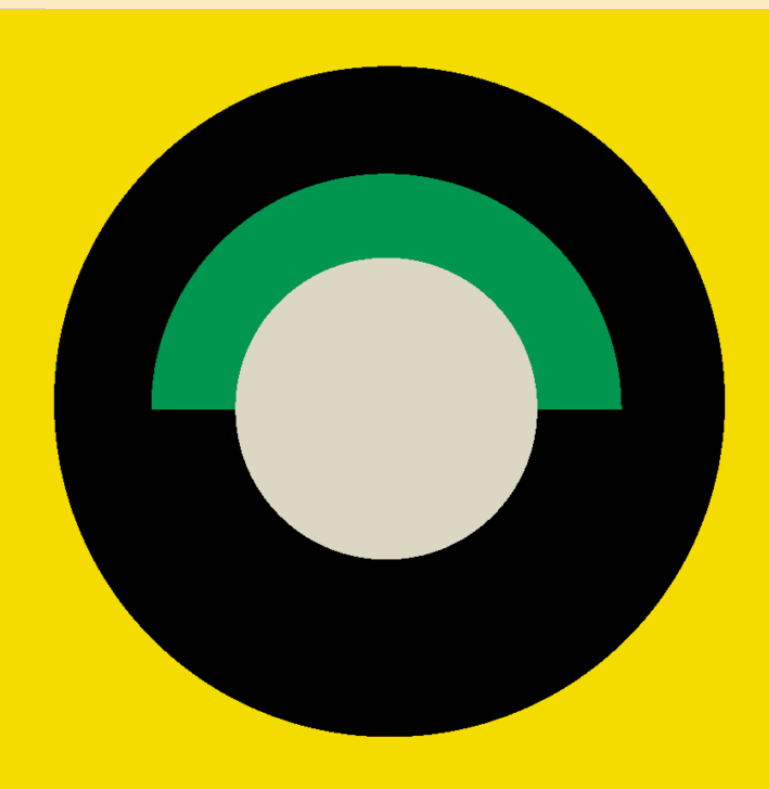


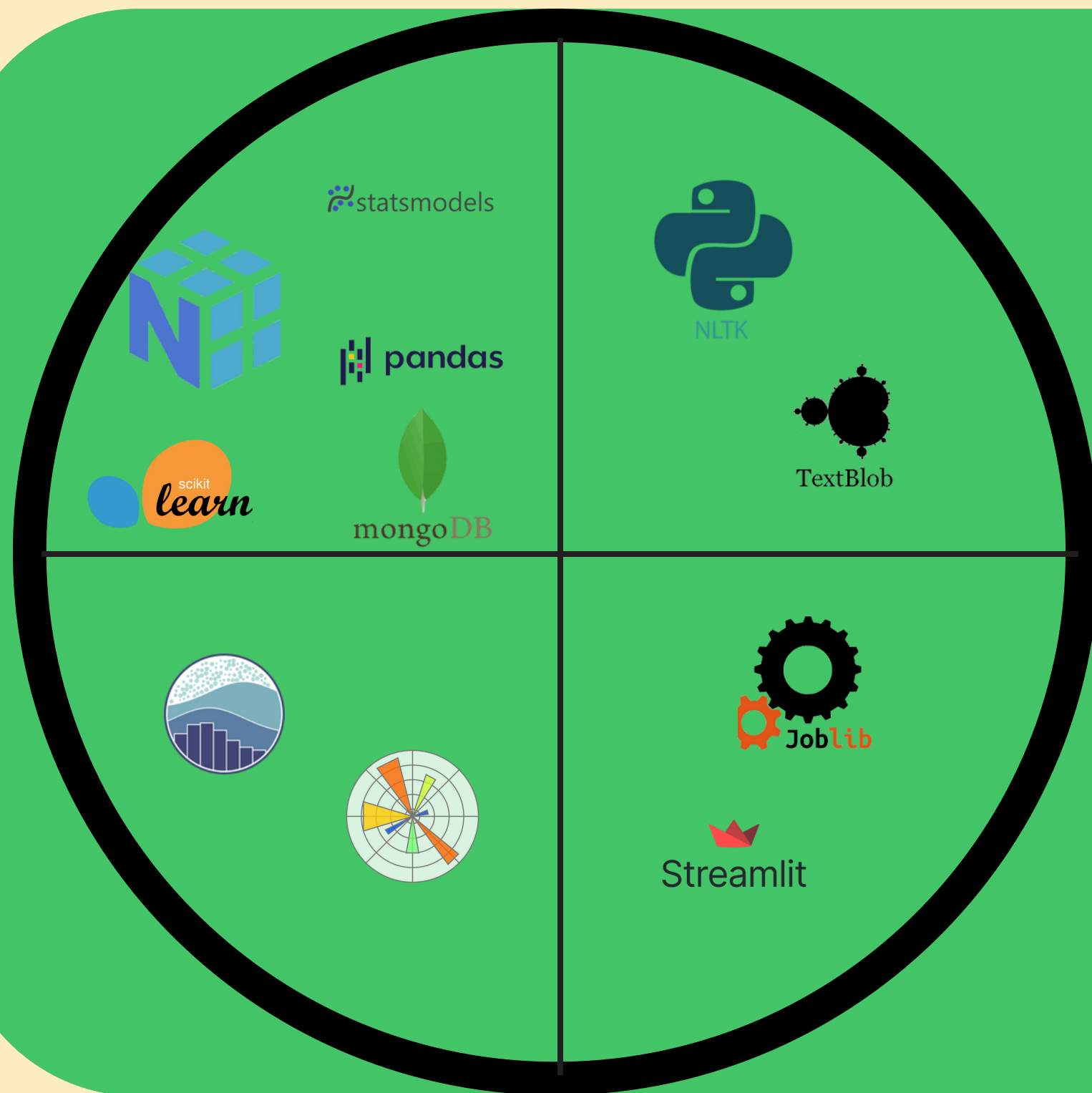
ChatGPT Tweet Sentiment Analysis



INTRODUCTION


In this project, we will develop a sentiment analysis model about the tweets about ChatGPT on Twitter.





Methodology

MongoDB

 **mongodb** ...

My Queries

Performance

Databases

Search

admin

local

mydatabase

nlp

sample_mflix

mydatabase nlp x +

mongodb > mydatabase > nlp

Documents 219.3K Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find </> Options

+ ADD DATA EXPORT DATA UPDATE DELETE

1 - 20 of 219294

```
_id: ObjectId('668fd4fe983361fd34f9a807')
: 0
tweets: "ChatGPT: Optimizing Language Models for Dialogue https://t.co/K9rKRygY..."
labels: "neutral"
```

```
_id: ObjectId('668fd4fe983361fd34f9a808')
: 1
tweets: "Try talking with ChatGPT, our new AI system which is optimized for dia..."
labels: "good"
```

```
_id: ObjectId('668fd4fe983361fd34f9a809')
: 2
tweets: "ChatGPT: Optimizing Language Models for Dialogue https://t.co/GLEbMoKN..."
labels: "neutral"
```

```
_id: ObjectId('668fd4fe983361fd34f9a80a')
: 3
tweets: "THRILLED to share that ChatGPT, our new model optimized for dialog, is..."
labels: "good"
```

```
_id: ObjectId('668fd4fe983361fd34f9a80b')
: 4
tweets: "As of 2 minutes ago, @OpenAI released their new ChatGPT. \n\nAnd you c..."
labels: "bad"
```



**We look for missing, empty and wrong values in the dataset.
We remove them if any.**



OUR GOAL...



NLP



USER ✓
@YourName



'As of 2 minutes ago, @OpenAI released their new ChatGPT. \n\nAnd you can use it right now 👉 <https://t.co/VyPGPNw988> <https://t.co/cSn5h6h1M1>

#ChatGPT

🗨 2M ❤ 7M ➦ 15M



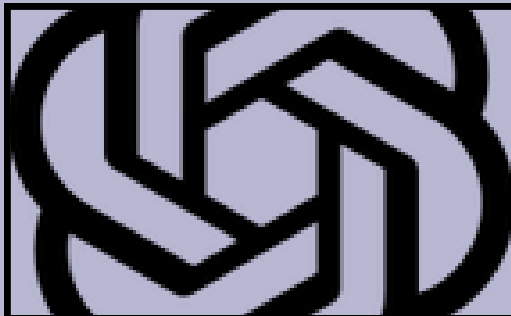
USER 2 ✓
@YourName



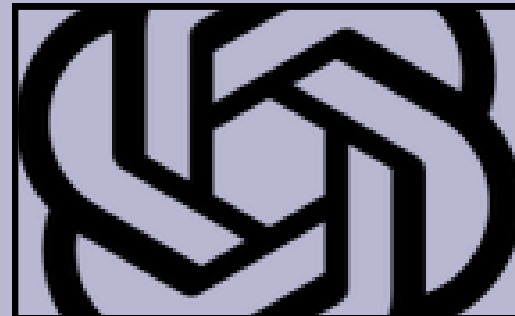
'ChatGPT: Optimizing Language Models for Dialogue
<https://t.co/GLEbMoKN6w> #AI #MachineLearning
#DataScience #ArtificialIntelligence\n\nTrending AI/ML
Article Identified & Digested via Granola; a Machine-
Driven RSS Bot by Ramsey Elbasheer
<https://t.co/RprmAXUp34>
#OpenAI



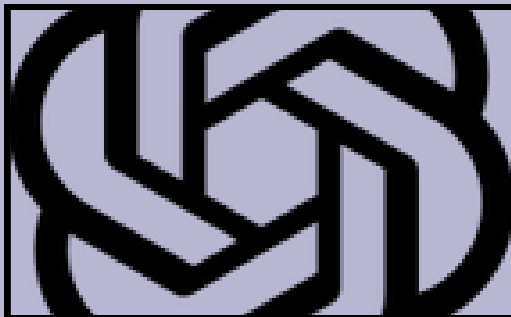
Word Tokenization



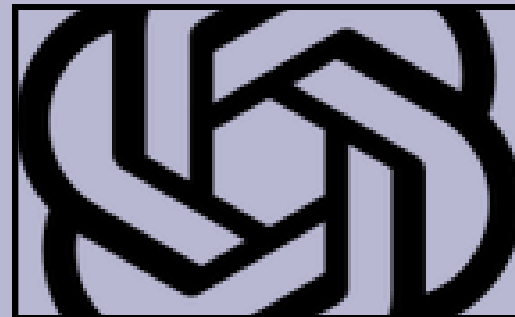
ALPHABETIC



STOP_WORDS

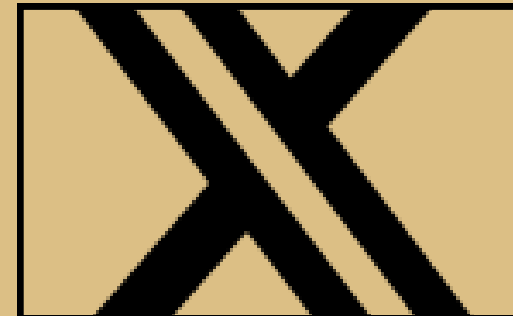


LOWER_HTML

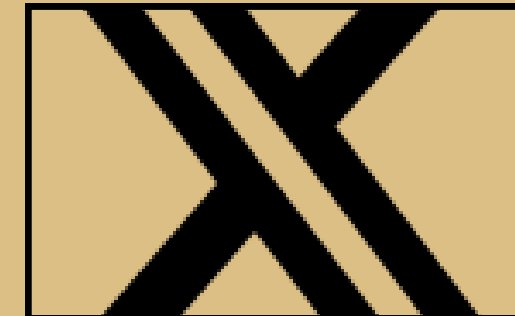


LEMMATIZE

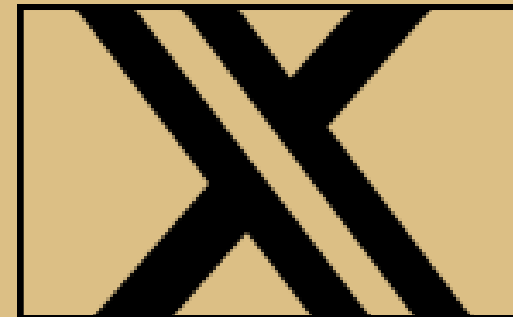
Remove



REMOVE_EMOJI



REMOVE_HTTPS



REMOVE_HTTP

Model

Classification

Good

Neutral

Bad

We tested multiple algorithms and the one that gave the best results was **Logistic regression**.

**TFIDF Vectorizer
Performance:**



VS



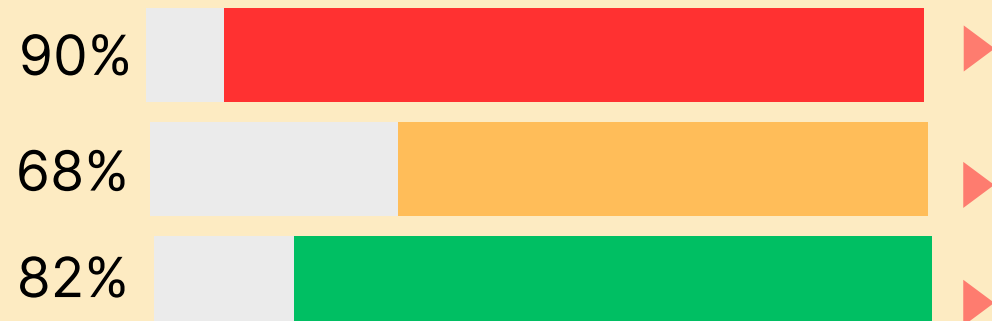
**Count Vectorizer
Performance:**



Precision



Recall



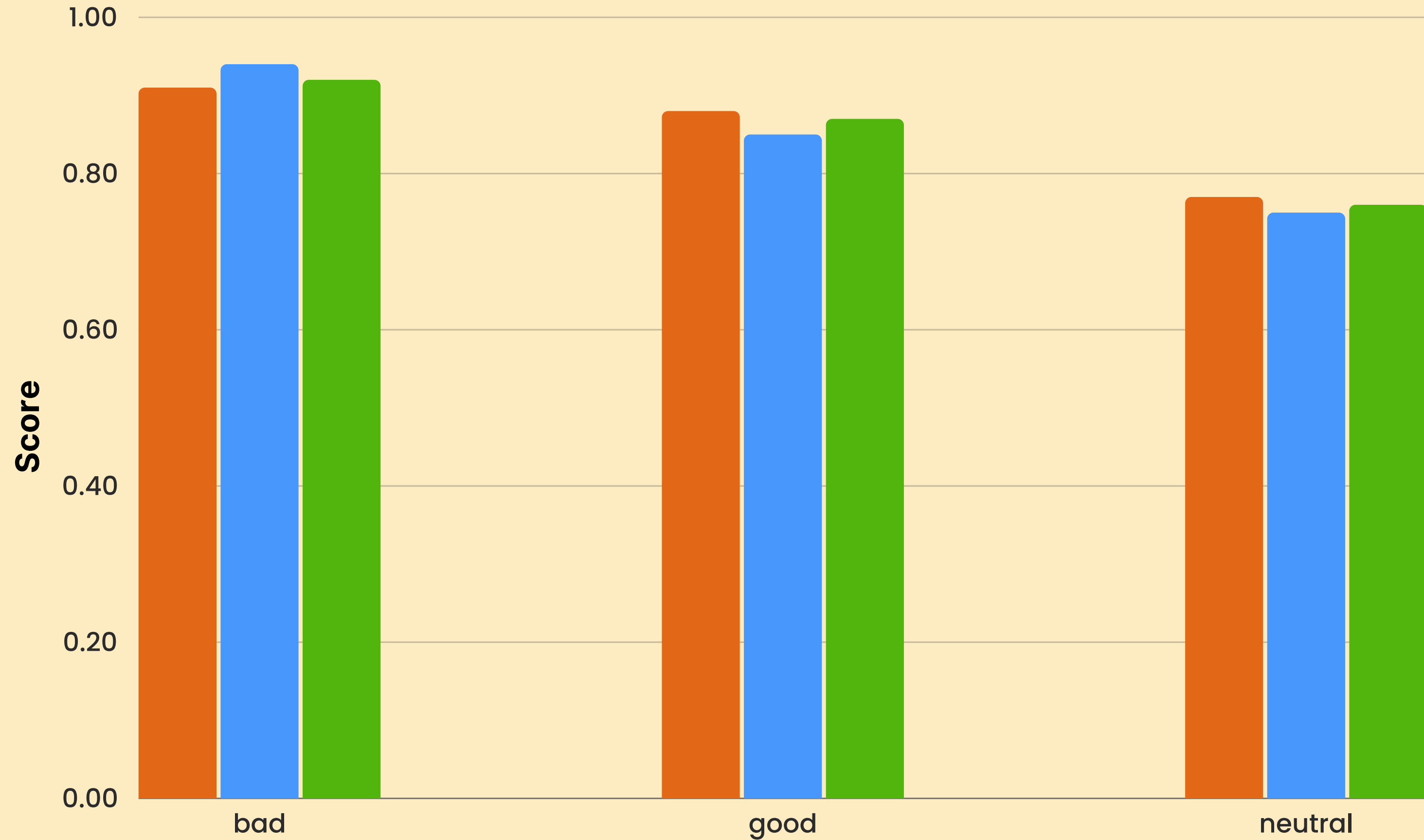
F1-score



Accuracy



Model Performance



Precision



Recall

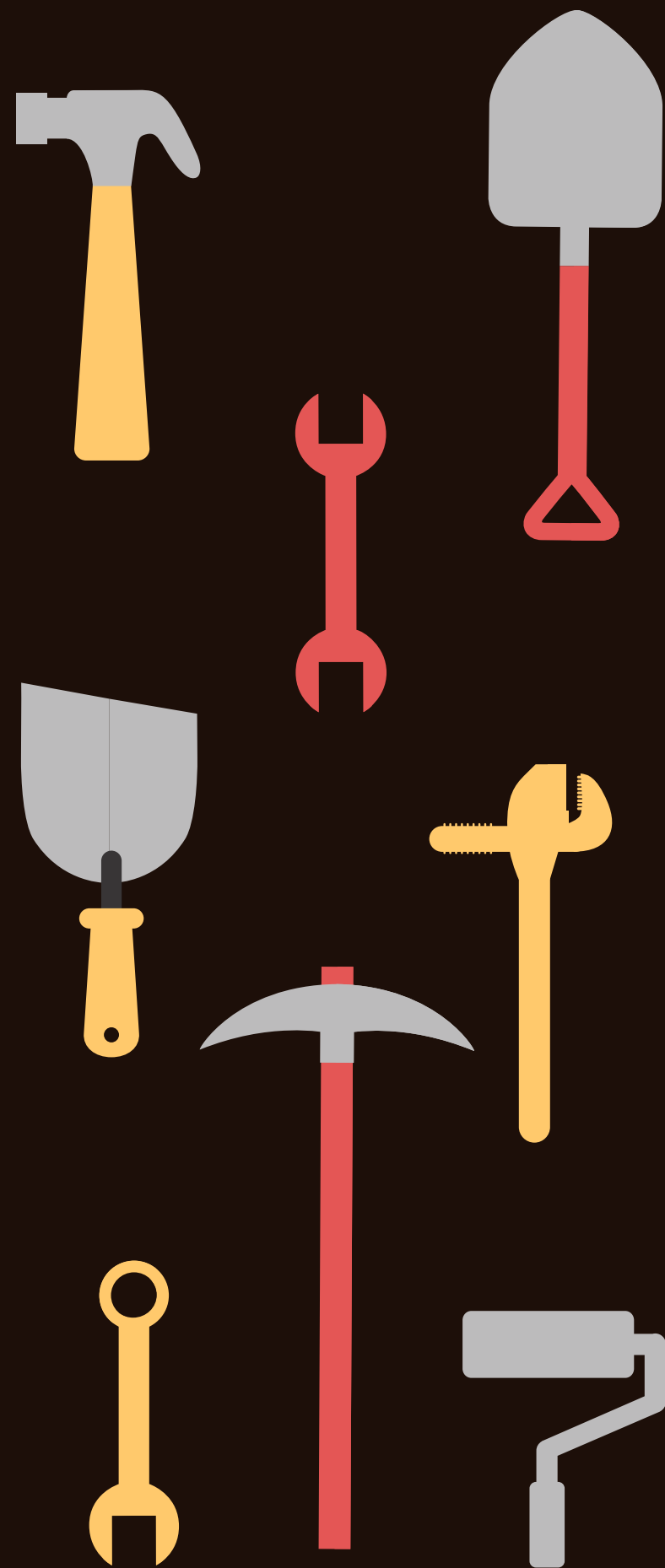


F1-Score

Classes

Confision Matrix

	BAD	GOOD	NEUTRAL
BAD	20202	196	1076
GOOD	313	9520	1371
NEUTRAL	1732	1086	8361



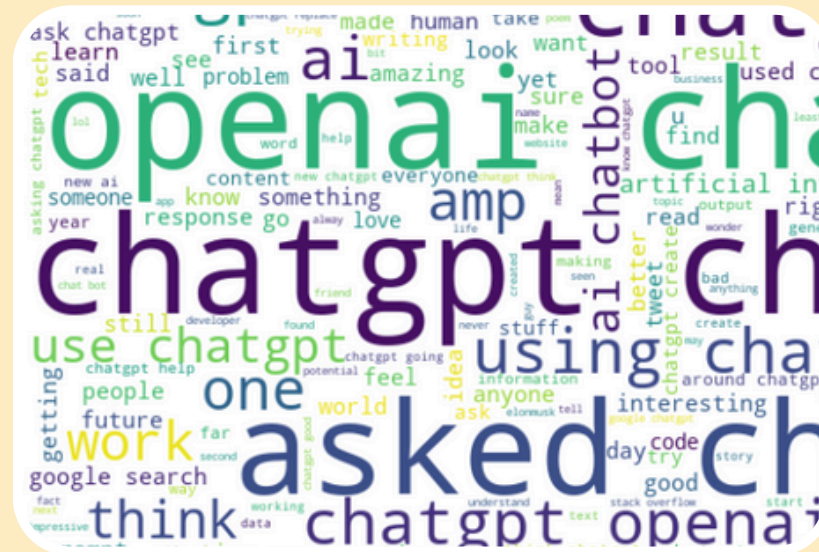
JOBLIB.DUMP

Message

(Today) PM 17.03

I'll send you a tweet. Can you give me a sentimental analysis of this tweet?

Yes, of course! Please send me the tweet
you would like to sentiment analyze. 😍



Visit our website for more. [Link](#)





Thank You

for listining

Soner Kooglu

Berke İlbay

Azad Halhallı