

Tweet Sentiment Classifier

This app performs sentiment analysis on tweets.

Loading datasets...

Datasets loaded and combined.

Total number of records: 314092

Available columns:

▼ [

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0 : "id"
1 : "conversation_id"
2 : "created_at"
3 : "date"
4 : "time"
5 : "timezone"
6 : "user_id"
7 : "username"
8 : "name"
9 : "place"
10 : "tweet"
11 : "language"
12 : "mentions"
13 : "urls"
14 : "photos"
15 : "replies_count"
16 : "retweets_count"
17 : "likes_count"
18 : "hashtags"
19 : "cashtags"
20 : "link"
21 : "retweet"
22 : "quote_url"
23 : "video"
```

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24 : "thumbnail"
25 : "near"
26 : "geo"
27 : "source"
28 : "user_rt_id"
29 : "user_rt"
30 : "retweet_id"
31 : "reply_to"
32 : "retweet_date"
33 : "translate"
34 : "trans_src"
35 : "trans_dest"

```

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]
```

Sentiment labels assigned. Sample data:

	text	sentiment
0	Join @SPJ_IC at 6 p.m. EDT Tuesday for the next #ICTalk with @chrismattmann, who created	negative
1	READ: Resilience, hard work, and perseverance paid off for Genison Basilio, who finished his	negative
2	How will the shift to streaming impact movie-making? An interesting data analysis on some	positive
3	(2/2) to gain the aptitude to find better solutions to real-world #challenges. Facebook livest	positive
4	Alexander Lukashenko is still in power in Belarus despite years of sanctions against him and	negative

Cleaning and filtering data...

Data cleaned. Sample cleaned text:

	text	clean_text
0	Join @SPJ_IC at 6 p.m. EDT Tuesday for the next #ICTalk with @chrismattmann, who	join pm edt tuesday next
1	READ: Resilience, hard work, and perseverance paid off for Genison Basilio, who finis	read resilience hard work
2	How will the shift to streaming impact movie-making? An interesting data analysis on	shift streaming impact m
3	(2/2) to gain the aptitude to find better solutions to real-world #challenges. Facebook	gain aptitude find better
4	Alexander Lukashenko is still in power in Belarus despite years of sanctions against h	alexander lukashenko sti

Encoding and splitting data...

Training model...

Evaluating model...

--- Model Evaluation ---

Accuracy: 0.9444753975707987

Classification Report:

precision recall f1-score support

0 0.93 0.97 0.95 33050

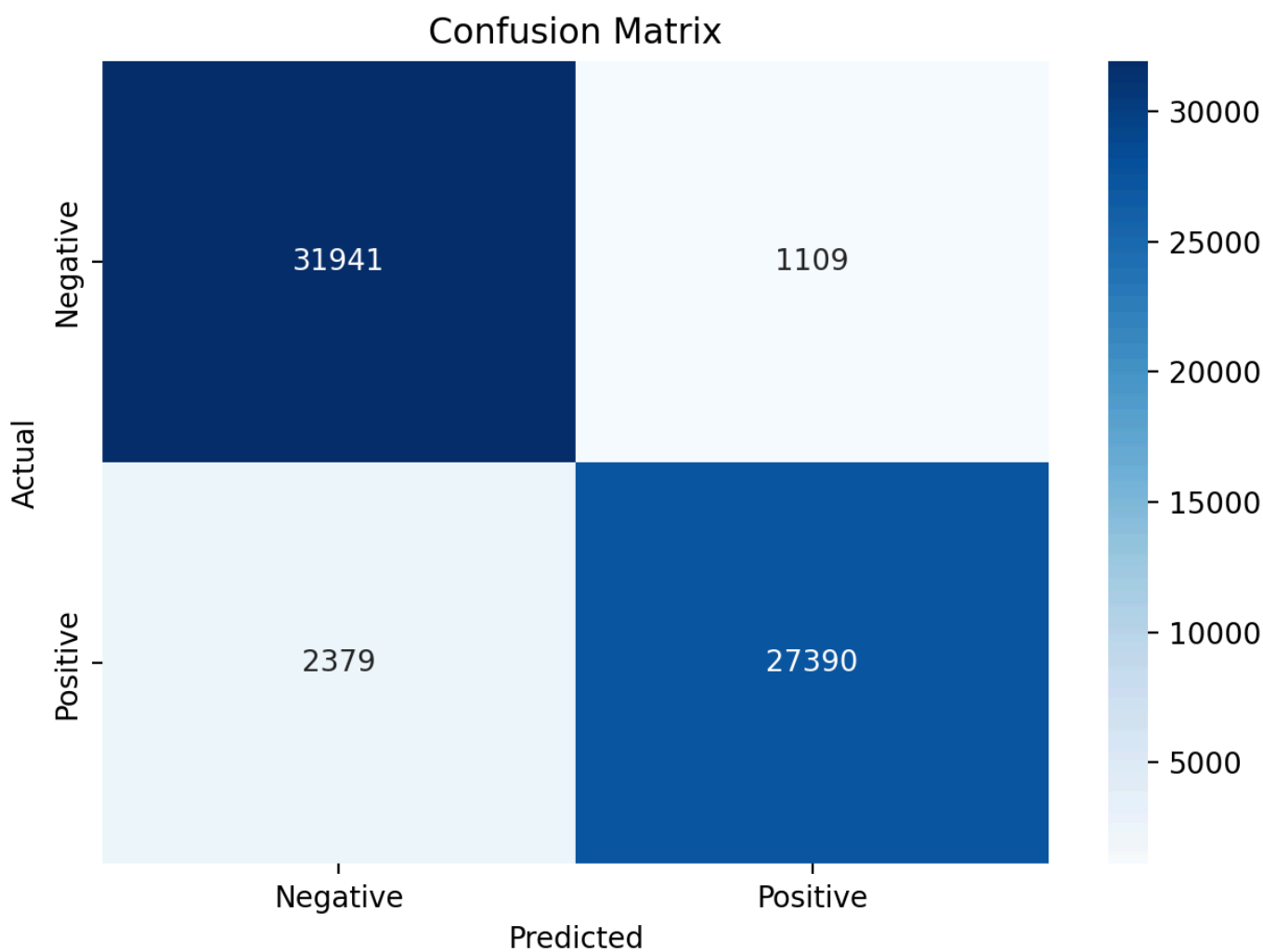
1 0.96 0.92 0.94 29769

accuracy 0.94 62819

macro avg 0.95 0.94 0.94 62819

weighted avg 0.95 0.94 0.94 62819

Plotting confusion matrix...



Confusion matrix saved as 'confusion_matrix.png'.

Done.