

#FULL EMOTION DATA ANALYSIS & CLASSIFICATION PIPELINE

First 5 rows of the dataset:

```
Unnamed: 0.1  Unnamed: 0  \
0             0           0
1             1           1
2             2           2
3             3           3
4             4           4
```

```
Text  Sentiment  \
0  Enjoying a beautiful day at the park!  ...  Positive
1  Traffic was terrible this morning.    ...  Negative
2  Just finished an amazing workout! 🏋️  ...  Positive
3  Excited about the upcoming weekend getaway!  ...  Positive
4  Trying out a new recipe for dinner tonight.  ...  Neutral
```

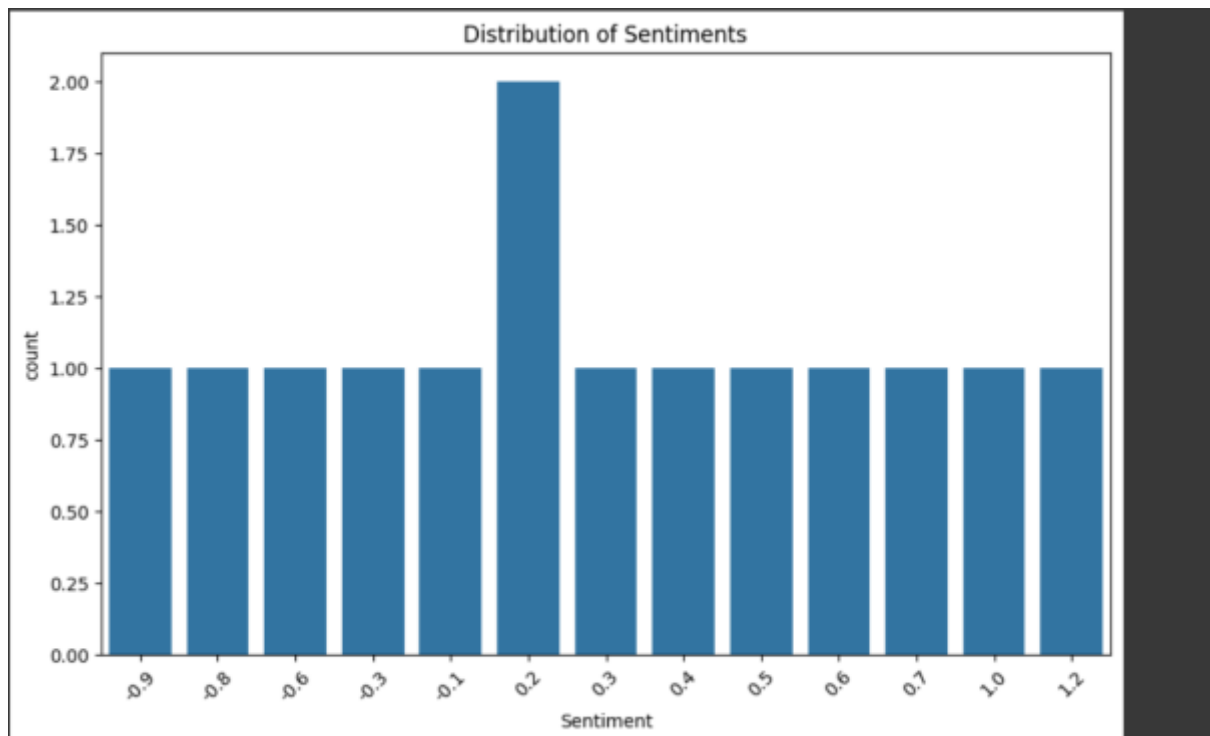
```
Timestamp  User  Platform  \
0  15-01-2023 12:30  User123  Twitter
1  15-01-2023 08:45  CommuterX  Twitter
2  15-01-2023 15:45  FitnessFan  Instagram
3  15-01-2023 18:20  AdventureX  Facebook
4  15-01-2023 19:55  ChefCook   Instagram
```

```
Hashtags  Retweets  Likes  Country
0  #Nature #Park  15  30  USA
1  #Traffic #Morning  5  10  Canada
2  #Fitness #Workout  20  40  USA
3  #Travel #Adventure  8  15  UK
4  #Cooking #Food  12  25  Australia
```

```
Year  Month  Day  Hour
0  2023    1   15   12
1  2023    1   15    8
2  2023    1   15   15
3  2023    1   15   18
4  2023    1   15   19
```

Column names: ['Unnamed: 0.1', 'Unnamed: 0', 'Text', 'Sentiment', 'Timestamp', 'User', 'Platform', 'Hashtags', 'Retweets', 'Likes', 'Country', '\']

#DISTRIBUTION OF SENTIMENT



Class distribution:

Sentiment

0.2 2

-0.8 1

-0.3 1

0.4 1

0.7 1

1.0 1

-0.9 1

0.3 1

-0.1 1

0.6 1

-0.6 1

1.2 1

0.5 1

Name: count, dtype: int64

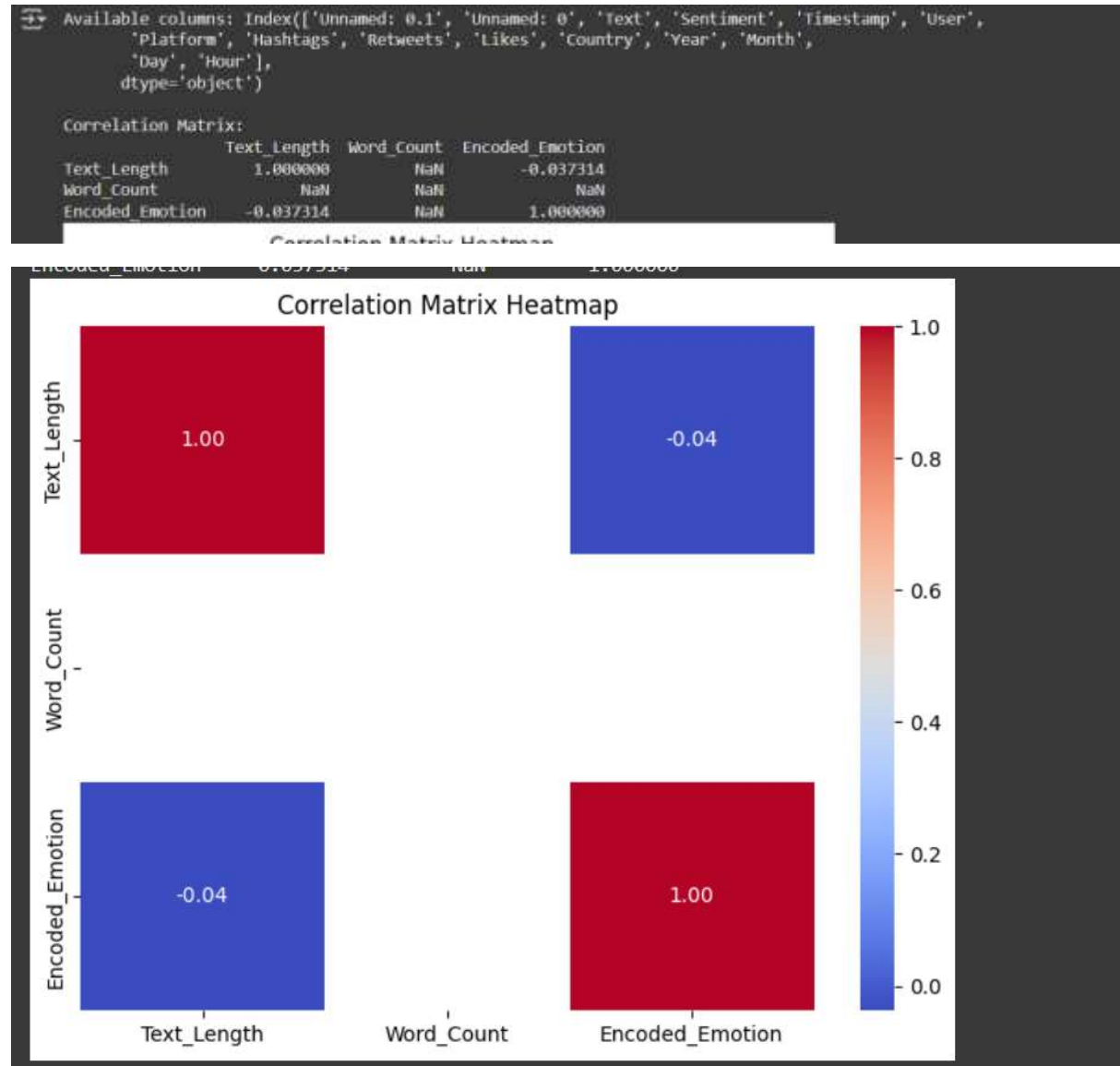
#Encode labels

```
Encoded sentiments:
{np.float64(-0.9): np.int64(0), np.float64(-0.8): np.int64(1), np.float64(-0.6): np.int64(2), np.float64(-0.3): np.int64(3), np.float64(-0.1): np.int64(4)}
```

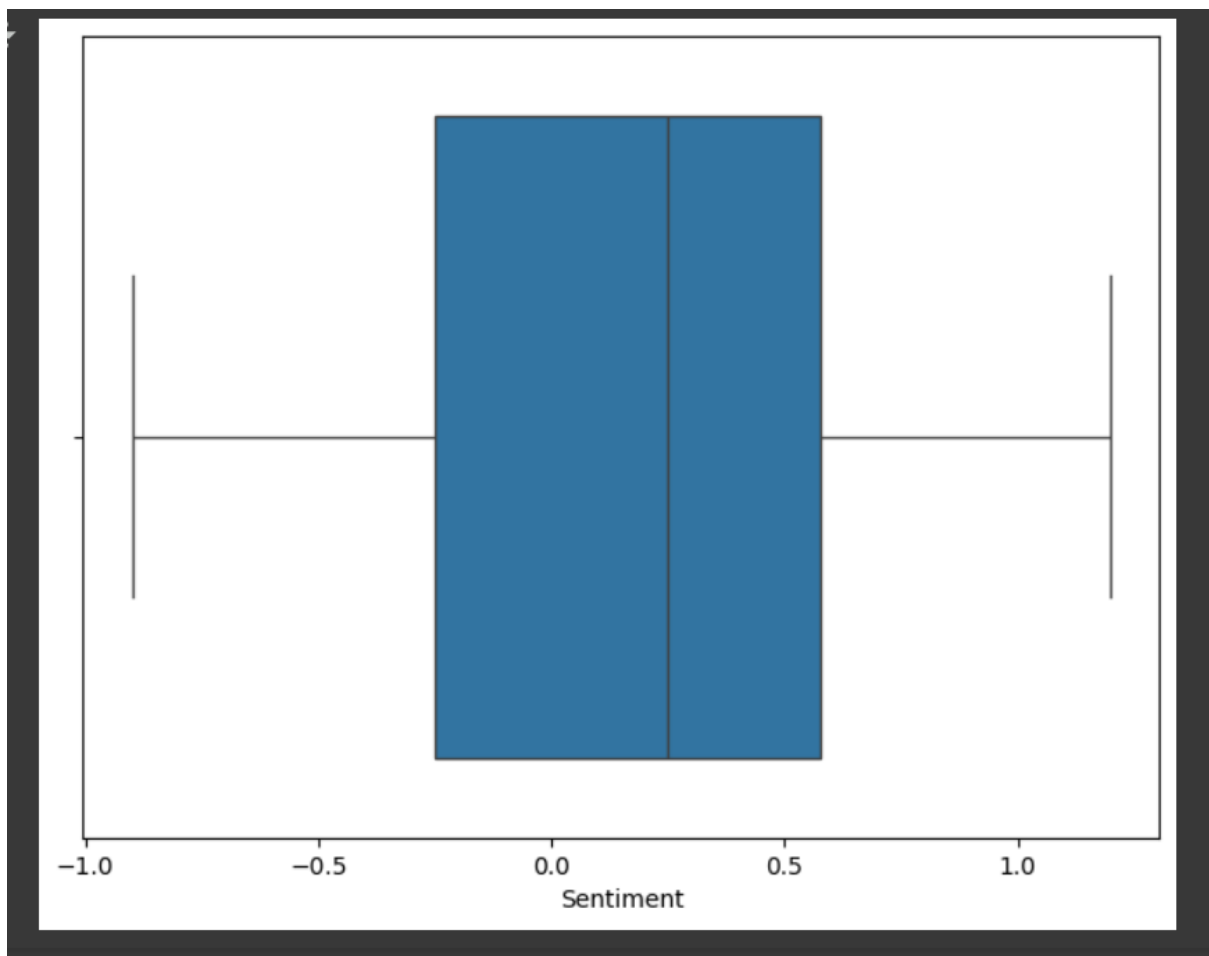
#TRAINING THE MODE

```
Training the model...
```

#HEATMAP



#BOXPLOT



#Z-SCORE

```
⌕ Z-scores: [np.float64(-0.26940795304016235), np.float64(0.14967108502231233), np.float64(0.35921060405354976), np.float64(-0.8980265101338745), 1
```

