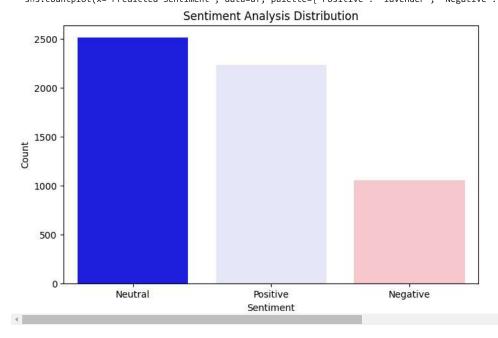
Sentimental data analysis

```
import pandas as pd
import matplotlib.pyplot as plt
from textblob import TextBlob
import seaborn as sns
# Load dataset
file_path = "stock_data.csv" # Update with the correct path if needed
df = pd.read_csv("/content/stock_data.csv")
# Function to analyze sentiment using TextBlob
def get_sentiment(text):
   blob = TextBlob(str(text))
    return blob.sentiment.polarity # Score between -1 (negative) and +1 (positive)
# Apply sentiment analysis
df["Sentiment Score"] = df["Text"].apply(get_sentiment)
# Categorize sentiment based on polarity
 df["Predicted Sentiment"] = df["Sentiment Score"]. apply(lambda x: "Positive" if x > 0 else ("Negative" if x < 0 else "Neutral")) 
# Compare with existing sentiment labels
df["Actual Sentiment"] = df["Sentiment"].replace({1: "Positive", 0: "Neutral", -1: "Negative"})
# Print sample output
print(df[["Text", "Actual Sentiment", "Predicted Sentiment", "Sentiment Score"]].head())
# Plot sentiment distribution
plt.figure(figsize=(8, 5))
sns.countplot(x="Predicted Sentiment", data=df, palette={"Positive": "lavender", "Negative": "pink", "Neutral": "blue"})
plt.xlabel("Sentiment")
plt.ylabel("Count")
plt.title("Sentiment Analysis Distribution")
plt.show()
₹
                                                     Text Actual Sentiment \
     0 Kickers on my watchlist XIDE TIT SOQ PNK CPW B...
                                                                  Positive
       user: AAP MOVIE. 55% return for the FEA/GEED i...
                                                                  Positive
     2 user I'd be afraid to short AMZN - they are lo...
                                                                  Positive
                                       MNTA Over 12.00
                                                                  Positive
     4
                                         OI Over 21.37
                                                                  Positive
       Predicted Sentiment Sentiment Score
     0
                   Neutral
                                        0.0
     1
                  Positive
                                        1.0
     2
                  Negative
                                       -0.3
     3
                   Neutral
                                        0.0
                   Neutral
                                        0.0
     <ipython-input-6-38b87569536b>:29: FutureWarning:
```

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `le sns.countplot(x="Predicted Sentiment", data=df, palette={"Positive": "lavender", "Negative": "pink", "Neutral": "blue"})



Start coding or generate with AI.