**SOURCE CODE**

**DECODING EMOTIONS THROUGH SENTIMENT ANALYSIS OF SOCIAL MEDIA CONVERSATIONS**

from google.colab import files

uploaded = files.upload()

import pandas as pd

# Load the dataset

df = pd.read\_csv("sentiment\_analysis\_project.csv")

# Display the first few rows

df.head()

### 🔹 Step 2: Install Required Libraries

!pip install vaderSentiment seaborn matplotlib

### 🔹 Step 3: Import Libraries

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### 🔹 Step 3: Import Libraries

import pandas as pd

import seaborn as sns

import matplotlib.pyplot as plt

from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer

### Step 4: Apply Sentiment Analysis to Comments

# Initialize analyzer

analyzer = SentimentIntensityAnalyzer()

# Function to classify sentiment

def get\_sentiment(text):

score = analyzer.polarity\_scores(str(text))['compound']

if score >= 0.05:

return 'Positive'

elif score <= -0.05:

return 'Negative'

else:

return 'Neutral'

# Apply to the dataset

df['Emotion'] = df['text'].apply(get\_sentiment)

# View results

df.head()

### Step 5: Visualize Sentiment Distribution

# Bar plot of emotions

sns.set(style="whitegrid")

plt.figure(figsize=(8, 5))

sns.countplot(x='Emotion', data=df, palette='pastel')

plt.title("Emotion Distribution")

plt.xlabel("Emotion Type")

plt.ylabel("Number of text")

plt.show()

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