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import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from wordcloud import WordCloud
from textblob import TextBlob
import re

df = pd.read_csv('twitter_training.csv', header=None)
df.columns = ['ID', 'Topic', 'Sentiment', 'Text']

def clean_text(text):
    text = re.sub(r'@[A-Za-z0-9_]+', '', text)
    text = re.sub(r'#', '', text)
    text = re.sub(r'RT[\s]+', '', text)
    text = re.sub(r'https?:\/\/\S+', '', text)
    text = re.sub(r'\W', ' ', text)
    return text.lower()

df['clean_text'] = df['Text'].astype(str).apply(clean_text)

def get_sentiment(text):
    analysis = TextBlob(text)
    if analysis.sentiment.polarity > 0:
        return 'Positive'
    elif analysis.sentiment.polarity == 0:
        return 'Neutral'
    else:
        return 'Negative'

df['Polarity_Sentiment'] = df['clean_text'].apply(get_sentiment)

plt.figure(figsize=(6,4))
sns.countplot(data=df, x='Polarity_Sentiment', palette='Set2')
plt.title("Sentiment Distribution")
plt.show()

for sentiment in ['Positive', 'Negative', 'Neutral']:
    text = " ".join(df[df['Polarity_Sentiment'] == sentiment]['clean_text'])
    wordcloud = WordCloud(width=800, height=400,
background_color='white').generate(text)
    plt.figure(figsize=(8,4))
    plt.imshow(wordcloud, interpolation='bilinear')
    plt.title(f"{sentiment} Sentiment WordCloud")
    plt.axis('off')
    plt.show()

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