

ChatGPT Reviews Analysis Report

Introduction

This report analyzes user reviews of ChatGPT, focusing on sentiment analysis, ratings distribution, keyword trends, and time-based rating fluctuations. The goal is to extract meaningful insights from user feedback.

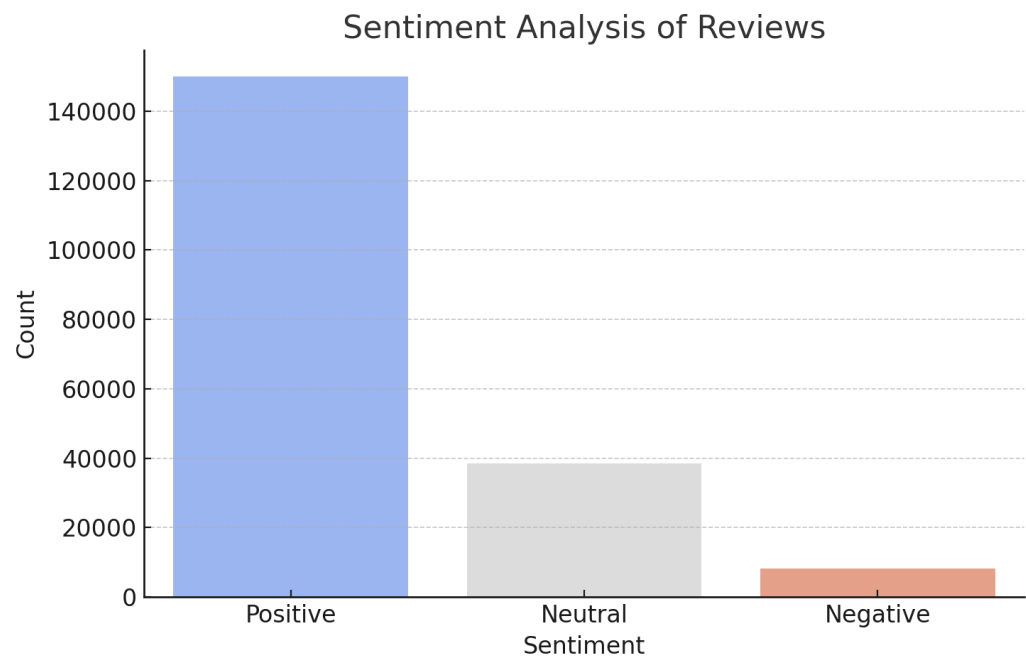
1. Sentiment Analysis

Sentiment analysis categorizes reviews as Positive, Neutral, or Negative based on text sentiment. Most reviews were positive, with a smaller proportion of neutral and negative sentiments.

```
# Sentiment Analysis using TextBlob
from textblob import TextBlob

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

df["Sentiment"] = df["Review"].apply(get_sentiment)
```

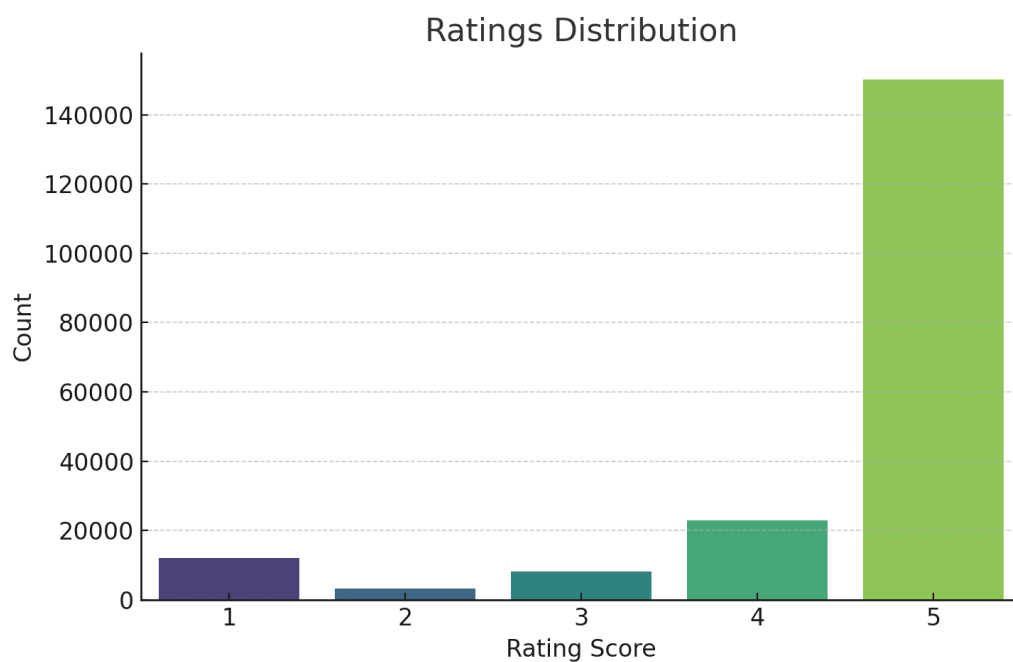


2. Ratings Distribution

The majority of users rated ChatGPT with 5 stars, indicating strong satisfaction. Fewer users provided lower ratings, suggesting a generally positive reception.

```
# Plot Ratings Distribution
import seaborn as sns
import matplotlib.pyplot as plt

plt.figure(figsize=(8, 5))
sns.countplot(data=df, x="Ratings", palette="viridis")
plt.title("Ratings Distribution")
plt.xlabel("Rating Score")
plt.ylabel("Count")
plt.show()
```



3. Keyword Analysis (Word Cloud)

A word cloud was generated to highlight the most commonly used words in reviews. Frequent words such as good, great, and app indicate positive feedback.

```
# Generate Word Cloud
from wordcloud import WordCloud

text = " ".join(df["Review"].dropna())
wordcloud = WordCloud(width=800, height=400, background_color="white",
                      colormap="coolwarm").generate(text)

plt.figure(figsize=(10, 5))
plt.imshow(wordcloud, interpolation="bilinear")
plt.axis("off")
plt.show()
```

