

TASK

1

CUSTOMER SENTIMENT ANALYSIS

Food Delivery Service Of Customer
Sentiment Analysis

INTRODUCTION

- ➔ In today's fast-paced world, food delivery services play a crucial role in customer convenience and satisfaction. Companies like QuickEats rely on customer feedback to improve their services and stay competitive. To enhance their 30-minute delivery guarantee, QuickEats implemented customer sentiment analysis to understand how customers feel about their delivery experience.
- ➔ By analyzing feedback from app reviews, social media, and customer support interactions, QuickEats identified key pain points and positive trends. This data-driven approach allowed them to optimize delivery operations, improve customer support, and refine their marketing strategies.
- ➔ This case study explores how sentiment analysis helped QuickEats address delivery issues and enhance customer satisfaction.

Customer Sentiment Review

❖ Customer sentiment analysis helps to understand how consumers feel about Food Delivery service and by categorizing feedback into three main types:

- POSITIVE SENTIMENT
- NEGATIVE SENTIMENT
- NEUTRAL SENTIMENT

❖ POSITIVE SENTIMENT

- Customers who appreciate food delivery often highlighting the Food Quality And Quick Delivery Timing.
- Easy to ordering And fresh hot food
- Secure Packaging And Generous portions
- Friendly Delivery Staff And Great value



**My experience
so far has been
fantastic!**

POSITIVE

❖ NEUTRAL SENTIMENT

- The service is generally reliable, with deliveries mostly arriving on time.
- The app is user-friendly and offers a good selection of restaurants.
- Food temperature is not maintained, sometimes arriving lukewarm
- Overall, the service is convenient but could improve in consistency and efficiency.



The product is
okay I guess.

NEUTRAL

❖ NEGATIVE SENTIMENT

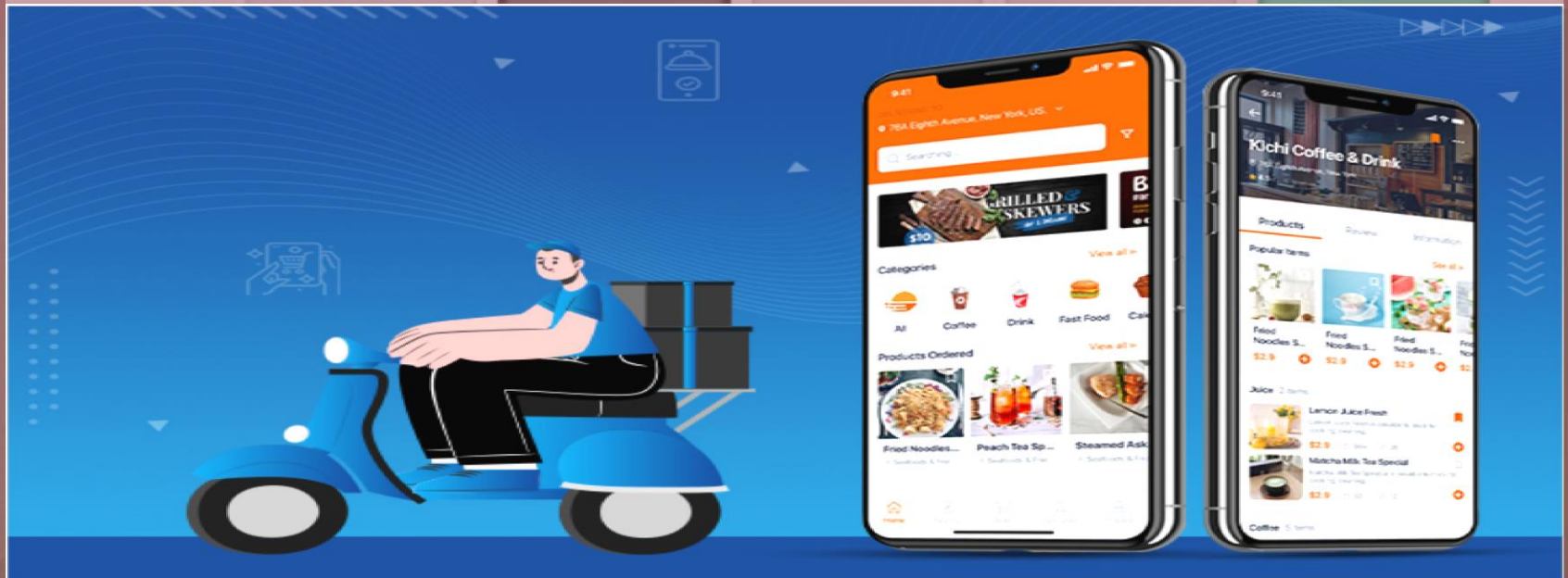
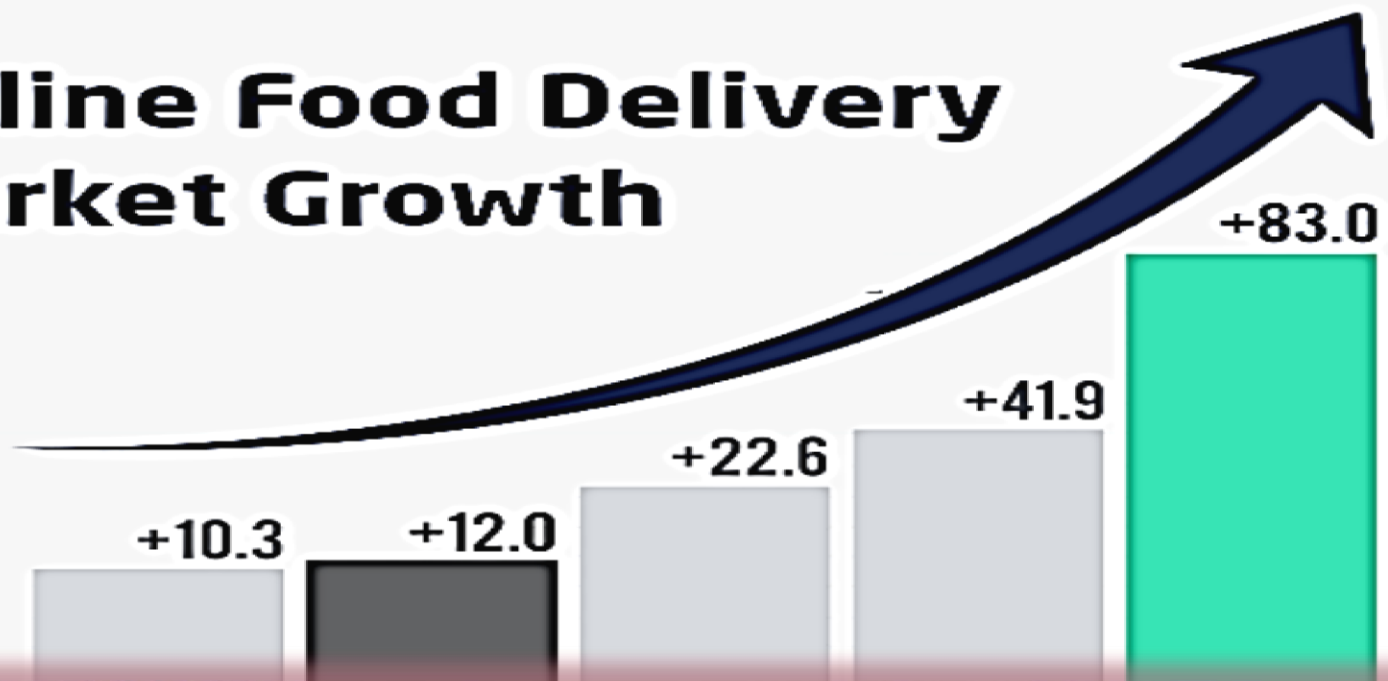
- Frequent delays, especially during peak hours, making it unreliable.
- Food often arrives cold or in poor condition.
- Customer service is slow to respond and not always helpful.
- Overall, the service needs significant improvement in efficiency and reliability.



Your support team is useless.

NEGATIVE

Online Food Delivery Market Growth

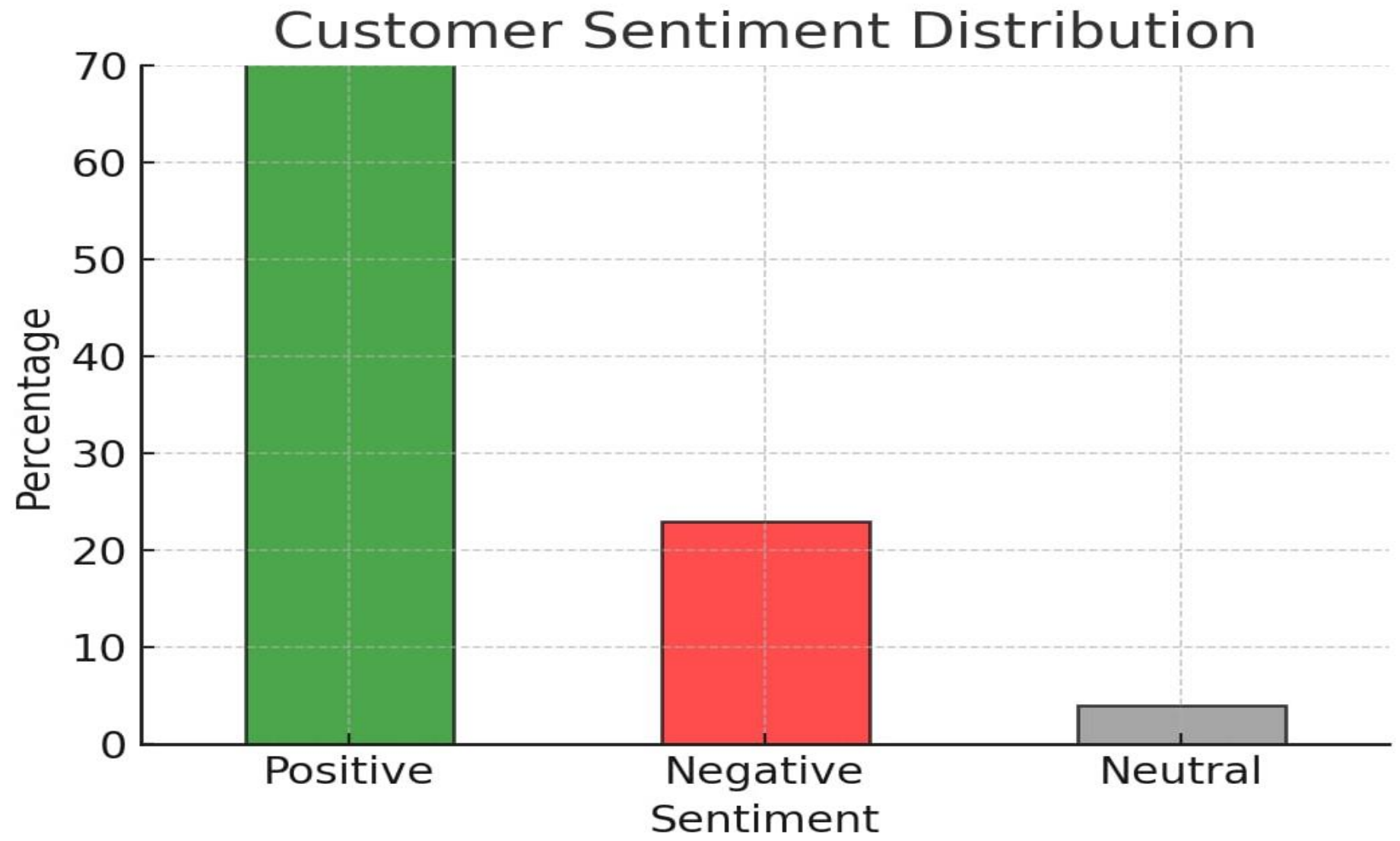


```

1 import random
2 import matplotlib.pyplot as plt
3 import pandas as pd
4 from textblob import TextBlob
5
6 # Generate synthetic customer reviews with predefined sentiment distribution
7 positive_reviews = ["Great product!", "Loved it!", "Highly recommend!", "Best purchase ever!", "Excellent quality!"] * 13
8 negative_reviews = ["Terrible experience.", "Not worth it.", "Very disappointed.", "Worst product ever.", "Bad quality."] * 3
9 neutral_reviews = ["It's okay.", "Average product.", "Not bad, not great.", "Meh.", "Fine, I guess."] * 4
10
11 # Combine and shuffle reviews
12 all_reviews = positive_reviews + negative_reviews + neutral_reviews
13 random.shuffle(all_reviews)
14
15 # Sentiment analysis using TextBlob
16 def get_sentiment(text):
17     analysis = TextBlob(text)
18     if analysis.sentiment.polarity > 0:
19         return "Positive"
20     elif analysis.sentiment.polarity < 0:
21         return "Negative"
22     else:
23         return "Neutral"
24
25 # Apply sentiment analysis
26 sentiments = [get_sentiment(review) for review in all_reviews]
27
28 # Create DataFrame
29 df = pd.DataFrame({"Review": all_reviews, "Sentiment": sentiments})
30
31 # Count sentiment occurrences
32 sentiment_counts = df["Sentiment"].value_counts(normalize=True) * 100
33
34 # Plot sentiment distribution - Bar Chart
35 plt.figure(figsize=(6, 4))
36 colors = ["green", "red", "gray"]
37 sentiment_counts.plot(kind="bar", color=colors, alpha=0.7, edgecolor="black")
38 plt.title("Customer Sentiment Distribution")
39 plt.xlabel("Sentiment")
40 plt.ylabel("Percentage")
41 plt.show()
42
43 # Plot sentiment distribution - Pie Chart
44 plt.figure(figsize=(6, 6))
45 sentiment_counts.plot(kind="pie", colors=colors, autopct='%1.1f%%', startangle=90, wedgeprops={'edgecolor': 'black'})
46 plt.title("Customer Sentiment Distribution (Pie Chart)")
47 plt.ylabel("") # Hide y-label for clarity
48 plt.show()

```


OUTPUT :



Pie chart:

Customer Sentiment Distribution (Pie Chart)

