# Sentiment Analysis of Social Media Conversations

from textblob import TextBlob

import matplotlib.pyplot as plt

# Simulated social media posts (replace with real data from Twitter API, etc.)

social\_media\_comments = [

"I love this product! It's amazing 😍",

"This is the worst service I’ve ever experienced.",

"Not bad, could be better.",

"Absolutely fantastic! Highly recommend it.",

"I’m really disappointed with the update.",

"Meh, it’s okay I guess.",

"The support team was very helpful!",

"Terrible. Just terrible.",

"I’m so happy right now!",

"Feeling sad about the news today."

]

# Analyze sentiments

sentiment\_summary = {"Positive": 0, "Neutral": 0, "Negative": 0}

detailed\_results = []

for comment in social\_media\_comments:

analysis = TextBlob(comment)

polarity = analysis.sentiment.polarity

if polarity > 0.1:

sentiment = "Positive"

elif polarity < -0.1:

sentiment = "Negative"

else:

sentiment = "Neutral"

sentiment\_summary[sentiment] += 1

detailed\_results.append((comment, sentiment, round(polarity, 2)))

# Output results

print("Sentiment Analysis Results:\n")

for comment, sentiment, polarity in detailed\_results:

print(f"Comment: {comment}\n → Sentiment: {sentiment} (Polarity: {polarity})\n")

# Visualize with Pie Chart

labels = sentiment\_summary.keys()

sizes = sentiment\_summary.values()

colors = ['green', 'gray', 'red']

plt.figure(figsize=(6, 6))

plt.pie(sizes, labels=labels, colors=colors, autopct='%1.1f%%', startangle=140)

plt.title('Sentiment Distribution of Social Media Comments')

plt.axis('equal')

plt.show()