```
!pip install textblob
import pandas as pd
import matplotlib.pyplot as plt
from textblob import TextBlob

data = {
    "Student_ID": [1,2,3,4,5,6,7,8,9,10],
    "Rating": [5,4,3,5,2,4,5,3,4,1],
    "Feedback": [
        "The event was excellent and very informative",
        "Good event but could improve time management",
        "Average experience, content was okay",
        "Loved the speakers and organization",
        "Poor management and boring sessions",
        "Nice event with good coordination",
        "Amazing experience, very useful",
        "It was okay but needs better planning",
        "Well organized and enjoyable",
        "Very bad experience, waste of time"
    ]
}

df = pd.DataFrame(data)
df

plt.figure()
df["Rating"].value_counts().sort_index().plot(kind="bar")
plt.xlabel("Rating")
plt.ylabel("Number of Students")
plt.title("Event Rating Distribution")
plt.show()

average_rating = df["Rating"].mean()
print("Average Event Rating:", round(average_rating, 2))

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

df["Sentiment"] = df["Feedback"].apply(get_sentiment)
df

plt.figure()
df["Sentiment"].value_counts().plot(kind="pie", autopct="%1.1f%%")
plt.title("Sentiment Analysis of Event Feedback")
plt.ylabel("")
plt.show()

recommendations = []

if (df["Rating"] < 3).sum() > 2:
    recommendations.append("Improve event organization and management")

if "time" in " ".join(df["Feedback"]).lower():
    recommendations.append("Better time management is required")

if (df["Sentiment"] == "Negative").sum() > 2:
    recommendations.append("Address negative feedback by improving session quality")

if not recommendations:
    recommendations.append("Overall event performance is good. Maintain quality")

print("----- COLLEGE EVENT FEEDBACK ANALYSIS REPORT -----\n")
print("Total Feedbacks:", len(df))
print("Average Rating:", round(average_rating, 2))
print("\nSentiment Distribution:")
print(df["Sentiment"].value_counts())
print("\nKey Recommendations:")
for rec in recommendations:
```

```
print("-", rec)
```