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# 🚀 Advanced Sentiment Analysis Project by Aryan Sharma
# 🌟 HexSoftwares Internship Task 1 - Twitter Sentiment Analysis
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```
!pip install textblob matplotlib
```

```
from textblob import TextBlob
import matplotlib.pyplot as plt
```

```
print("🤖 AryanBot Sentiment Analyzer Ready!\n")
```

```
# --- Predefined demo sentences (aapko input dene ki zarurat nahi) ---
```

```
texts = [
    "I love this internship, it is amazing!",
    "The project is very difficult.",
    "I am feeling okay today.",
    "This AI code is fantastic and powerful.",
    "I hate when errors come again and again."
]
```

```
# --- Sentiment counters ---
```

```
positive = 0
negative = 0
neutral = 0
```

```
# --- Sentiment analysis ---
```

```
for text in texts:
    blob = TextBlob(text)
    polarity = blob.sentiment.polarity
```

```
    if polarity > 0:
        sentiment = "Positive 😊"
        positive += 1
```

```
    elif polarity < 0:
        sentiment = "Negative 😞"
        negative += 1
```

```
    else:
        sentiment = "Neutral 😐"
        neutral += 1
```

```
print(f"📝 Sentence: {text}")
print(f"➡️ Detected Sentiment: {sentiment}\n")
```

```
# --- Visualization (Graph) ---
```

```
labels = ['Positive 😊', 'Negative 😞', 'Neutral 😐']
values = [positive, negative, neutral]
```

```
plt.bar(labels, values, color=['green', 'red', 'blue'])
plt.title("Sentiment Analysis Result")
plt.xlabel("Sentiment Type")
plt.ylabel("Count")
plt.show()
```

➡ Requirement already satisfied: textblob in /usr/local/lib/python3.12/dist-packages (0.19.0)  
Requirement already satisfied: matplotlib in /usr/local/lib/python3.12/dist-packages (3.10.0)  
Requirement already satisfied: nltk>=3.9 in /usr/local/lib/python3.12/dist-packages (from textblob) (3.9.1)  
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (1.1.1)  
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.12/dist-packages (from nltk>=3.9) (0.10.0)  
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (4.22.0)  
Requirement already satisfied: kiwisolver>=1.3.1 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (1.4.5)  
Requirement already satisfied: numpy>=1.23 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (1.26.4)  
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (24.0)  
Requirement already satisfied: pillow>=8 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (10.2.0)  
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (3.1.2)  
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.12/dist-packages (from matplotlib) (2.8.2)  
Requirement already satisfied: click in /usr/local/lib/python3.12/dist-packages (from nltk>=3.9) (8.1.7)  
Requirement already satisfied: joblib in /usr/local/lib/python3.12/dist-packages (from nltk>=3.9) (1.3.2)  
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.12/dist-packages (from nltk>=3.9) (2024.5.15)  
Requirement already satisfied: tqdm in /usr/local/lib/python3.12/dist-packages (from nltk>=3.9) (4.66.4)  
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.12/dist-packages (from nltk>=3.9) (1.16.0)  
🤖 AryanBot Sentiment Analyzer Ready!

📝 Sentence: I love this internship, it is amazing!  
➡ Detected Sentiment: Positive 😊

📝 Sentence: The project is very difficult.  
➡ Detected Sentiment: Negative 😞

📝 Sentence: I am feeling okay today.  
➡ Detected Sentiment: Positive 😊

📝 Sentence: This AI code is fantastic and powerful.  
➡ Detected Sentiment: Positive 😊

📝 Sentence: I hate when errors come again and again.  
➡ Detected Sentiment: Negative 😞



