

Name	Modified
data	16d ago
notebooks	16d ago
Untitled Folder	17d ago
Untitled Folder1	16d ago
accident_data.csv	now
bank_sample_dat...	1h ago
bank_sample.csv	14d ago
pop.csv	17d ago
Population (1).csv	17d ago
Population.csv	17d ago
README.md	16d ago
Task_01.ipynb	16d ago
titanic.csv	14d ago
Untitled.ipynb	17d ago
Untitled2.ipynb	17d ago
Untitled3.ipynb	17d ago
untitled3.txt	16d ago
Untitled4.ipynb	17d ago
Untitled7.ipynb	14d ago
Untitled8.ipynb	14d ago
Untitled9.ipynb	14d ago
Untitled10.ipynb	14d ago
Untitled11.ipynb	14d ago
Untitled12.ipynb	14d ago
Untitled13.ipynb	14d ago
Untitled14.ipynb	14d ago
Untitled15.ipynb	12d ago
Untitled16.ipynb	1h ago
Untitled17.ipynb	1h ago
Untitled18.ipynb	1h ago
Untitled19.ipynb	29s ago

```
[1]: import pandas as pd
import matplotlib.pyplot as plt

# Load Dataset
df = pd.read_csv("accident_data.csv")

# Show first few rows
print(df.head())

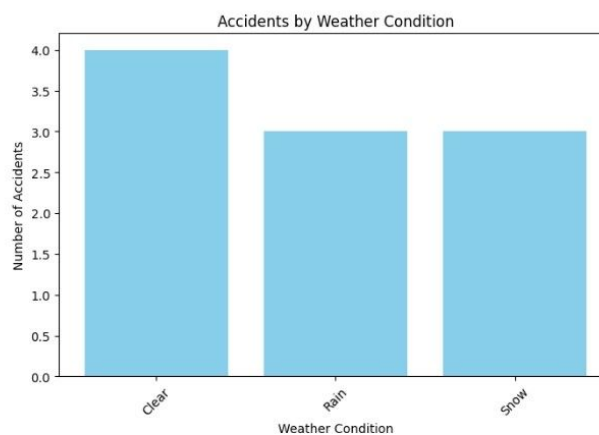
# Example 1: Accident counts by Road Condition
road_counts = df['Road_Condition'].value_counts()
plt.figure(figsize=(8,5))
plt.bar(road_counts.index, road_counts.values, color='tomato')
plt.title("Accidents by Road Condition")
plt.xlabel("Road Condition")
plt.ylabel("Number of Accidents")
plt.xticks(rotation=45)
plt.show()

# Example 2: Accident counts by Weather
weather_counts = df['Weather_Condition'].value_counts()
plt.figure(figsize=(8,5))
plt.bar(weather_counts.index, weather_counts.values, color='skyblue')
plt.title("Accidents by Weather Condition")
plt.xlabel("Weather Condition")
plt.ylabel("Number of Accidents")
plt.xticks(rotation=45)
plt.show()

# Example 3: Accident counts by Time of Day
df['Hour'] = pd.to_datetime(df['Time'], errors='coerce').dt.hour
plt.hist(df['Hour'].dropna(), bins=24, color='green', edgecolor='black')
plt.title("Accidents by Time of Day (Hourly)")
plt.xlabel("Hour of Day")
plt.ylabel("Accident Count")
plt.show()
```

Matplotlib is building the font cache; this may take a moment.

	Time	Road_Condition	Weather_Condition
0	08:15	Dry	Clear
1	14:30	Wet	Rain
2	22:45	Dry	Clear
3	18:00	Icy	Snow
4	07:30	Wet	Rain



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- 14d ago
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- 1h ago
- 1h ago
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- 29s ago

### Accidents by Time of Day (Hourly)

Time	Road Condition	Weather Condition
22:45	Dry	Clear
18:00	Icy	Snow
07:30	Wet	Rain

```

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