

▼ Auto theft

```
from google.colab import drive
drive.mount('/content/drive')

Mounted at /content/drive

import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load CSV file into a pandas DataFrame
df = pd.read_csv('/content/drive/MyDrive/Data visualozation/Crime/Auto_theft.csv')

# Get the list of column names
columns = df.columns.tolist()
columns.remove('Year')
columns.remove('Area_Name')

# Create a bar plot of all columns by state
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Create a bar plot of the total number of crimes by state
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Area_Name', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by State')
    plt.show()

# Create a bar plot of all columns by year
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Create a bar plot of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Year', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by Year')
    plt.show()

# Create a pie chart of all columns by state
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Group the data by state and sum the values for each column
    state_data = df.groupby('Area_Name')[column].sum()

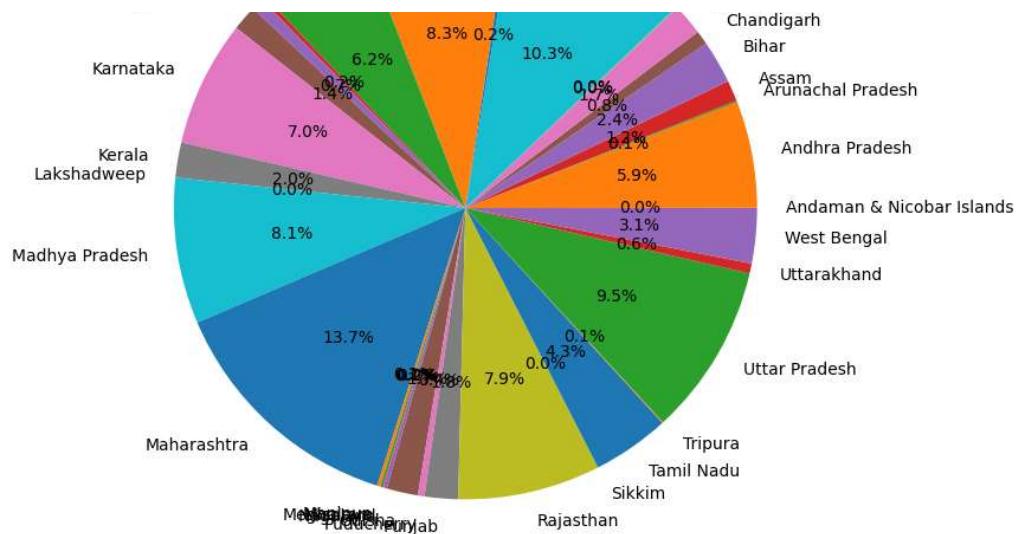
    # Create a pie chart of the total number of crimes by state
    plt.figure(figsize=(12, 8))
    plt.pie(state_data, labels=state_data.index, autopct='%1.1f%%')
    plt.title(f'{column.title()} by State')
    plt.show()

# Create a pie chart of all columns by year
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

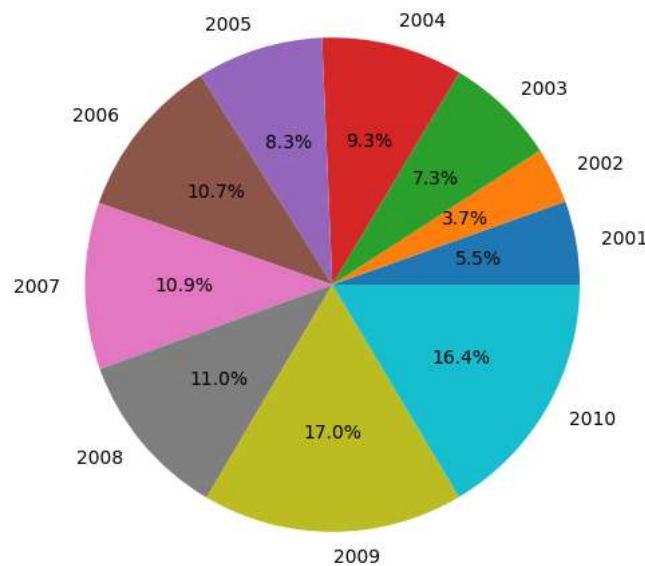
    # Group the data by year and sum the values for each column
    year_data = df.groupby('Year')[column].sum()

    # Create a pie chart of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    plt.pie(year_data, labels=year_data.index, autopct='%1.1f%%')
    plt.title(f'{column.title()} by Year')
```

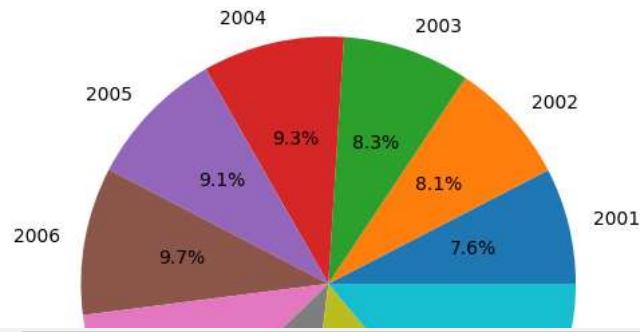
```
plt.show()
```



Auto_Theft_Coordinated/Traced by Year



Auto_Theft_Recovered by Year



▼ Property stolen and recoverd

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load CSV file into a pandas DataFrame
df = pd.read_csv('/content/drive/MyDrive/Data visualozation/Crime/Property_stolen_and_recovered.csv')

# Get the list of column names
columns = df.columns.tolist()
columns.remove('Year')
columns.remove('Area_Name')

# Create a bar plot of all columns by state
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Create a bar plot of the total number of crimes by state
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Area_Name', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by State')
    plt.show()

# Create a bar plot of all columns by year
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Create a bar plot of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Year', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by Year')
    plt.show()

# Create a pie chart of all columns by state
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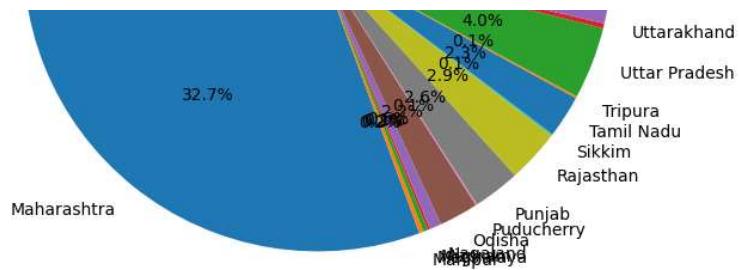
    # Group the data by state and sum the values for each column
    state_data = df.groupby('Area_Name')[column].sum()

    # Create a pie chart of the total number of crimes by state
    plt.figure(figsize=(12, 8))
    plt.pie(state_data, labels=state_data.index, autopct='%.1f%%')
    plt.title(f'{column.title()} by State')
    plt.show()

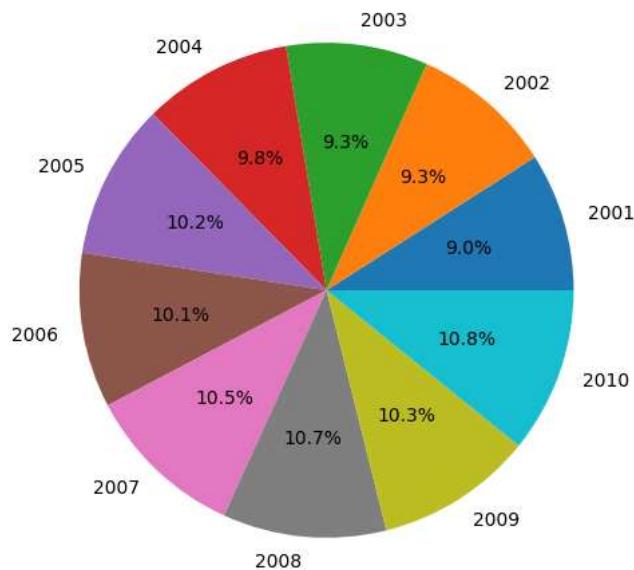
# Create a pie chart of all columns by year
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Group the data by year and sum the values for each column
    year_data = df.groupby('Year')[column].sum()

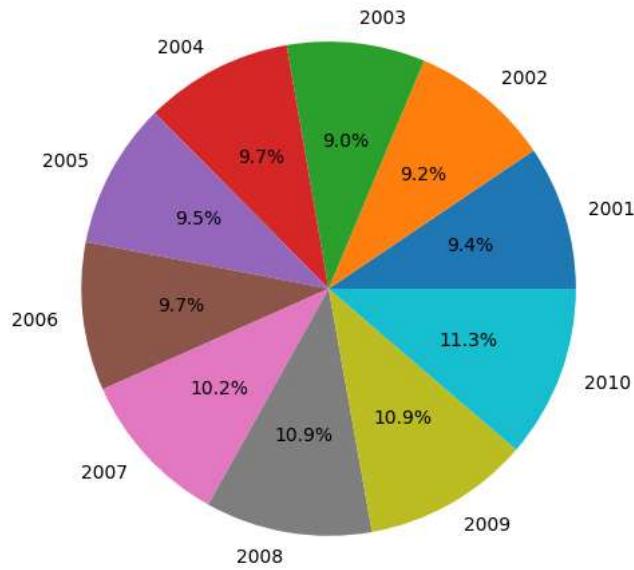
    # Create a pie chart of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    plt.pie(year_data, labels=year_data.index, autopct='%.1f%%')
    plt.title(f'{column.title()} by Year')
    plt.show()
```



Cases_Property_Recovered by Year



Cases_Property_Stolen by Year



▼ Complaint against police

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load CSV file into a pandas DataFrame
df = pd.read_csv('/content/drive/MyDrive/Data visualozation/Crime/Complaints_against_police.csv')

# Get the list of column names
columns = df.columns.tolist()
columns.remove('Year')
columns.remove('Area_Name')

# Create a bar plot of all columns by state
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Create a bar plot of the total number of crimes by state
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Area_Name', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by State')
    plt.show()

# Create a bar plot of all columns by year
for column in columns:
    # Skip over any non-numeric columns
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    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Year', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by Year')
    plt.show()

# Create a pie chart of all columns by state
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Group the data by state and sum the values for each column
    state_data = df.groupby('Area_Name')[column].sum()

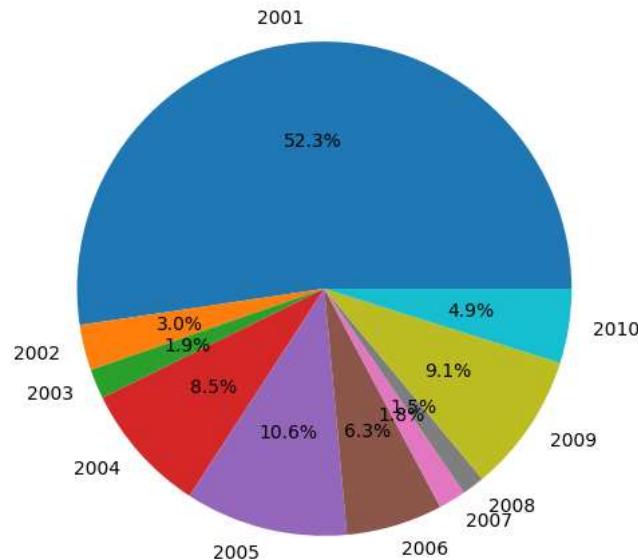
    # Create a pie chart of the total number of crimes by state
    plt.figure(figsize=(12, 8))
    plt.pie(state_data, labels=state_data.index, autopct='%.1f%%')
    plt.title(f'{column.title()} by State')
    plt.show()

# Create a pie chart of all columns by year
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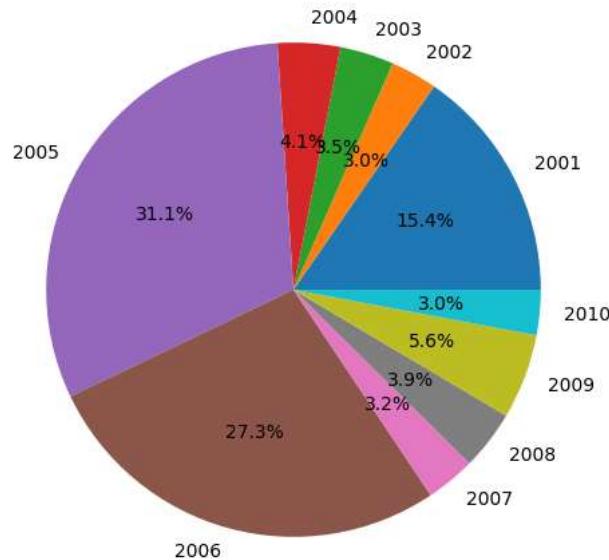
    # Group the data by year and sum the values for each column
    year_data = df.groupby('Year')[column].sum()

    # Create a pie chart of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    plt.pie(year_data, labels=year_data.index, autopct='%.1f%%')
    plt.title(f'{column.title()} by Year')
    plt.show()
```

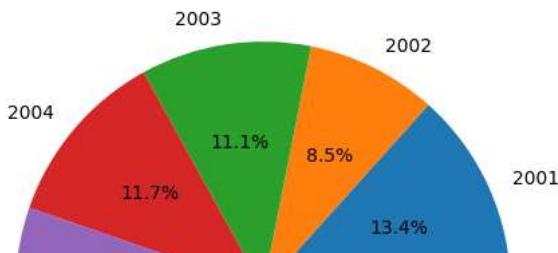
Cpa_No_Of_Magisterial_Enquiries by Year



Cpa_Cases_Sent_For_Trials/Charge-Sheeted by Year



Cpa_No_Of_Judicial_Enquiries by Year



▼ Rape victim

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load CSV file into a pandas DataFrame
df = pd.read_csv('/content/drive/MyDrive/Data visualozation/Crime/Rape_Victims.csv')

# Get the list of column names
columns = df.columns.tolist()
columns.remove('Year')
columns.remove('Area_Name')

# Create a bar plot of all columns by state
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

    # Create a bar plot of the total number of crimes by state
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Area_Name', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by State')
    plt.show()

# Create a bar plot of all columns by year
for column in columns:
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    if not pd.api.types.is_numeric_dtype(df[column]):
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    # Create a bar plot of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    ax = sns.barplot(x='Year', y=column, data=df)
    ax.set_xticklabels(ax.get_xticklabels(), rotation=90)
    plt.title(f'{column.title()} by Year')
    plt.show()

# Create a pie chart of all columns by state
for column in columns:
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        continue

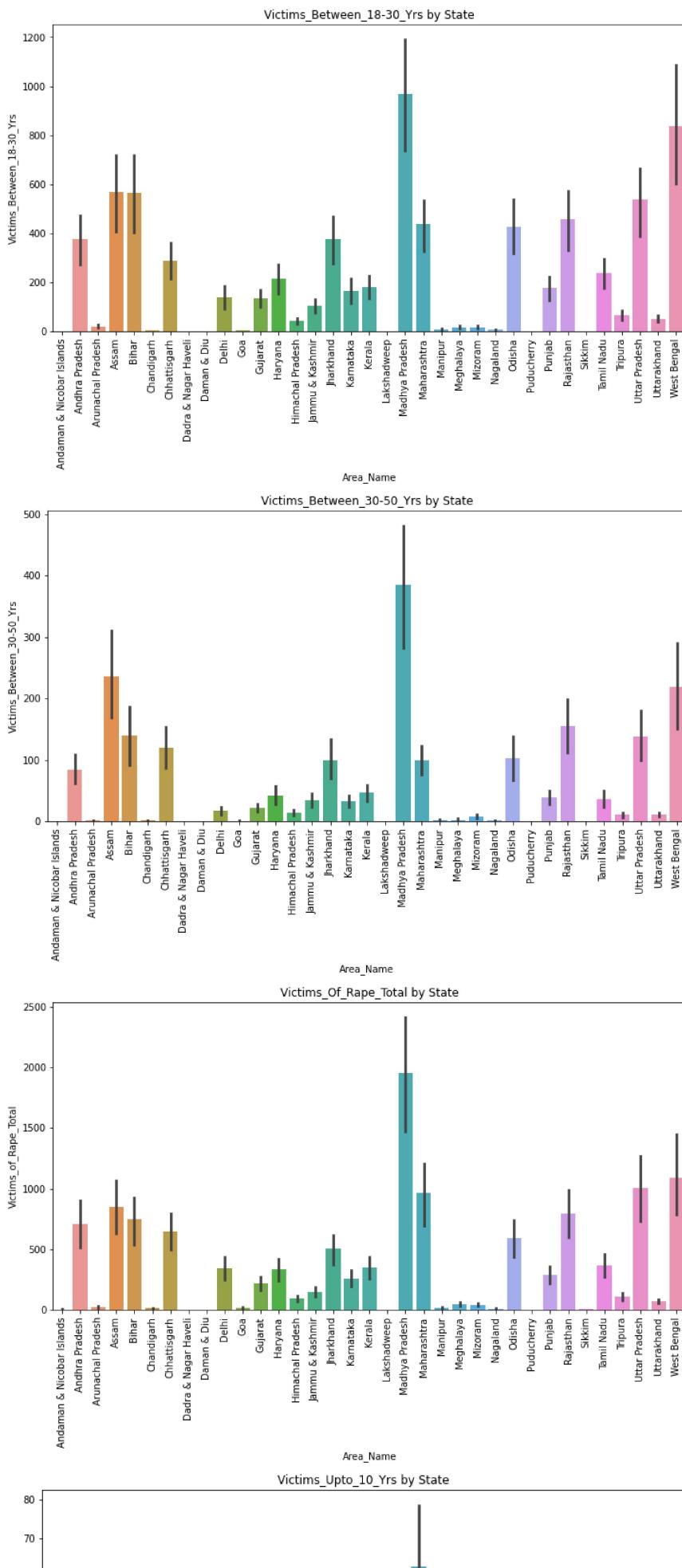
    # Group the data by state and sum the values for each column
    state_data = df.groupby('Area_Name')[column].sum()

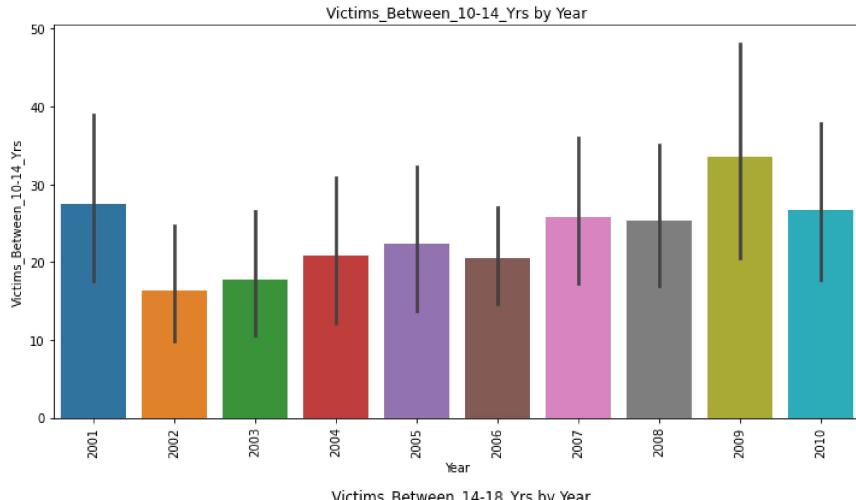
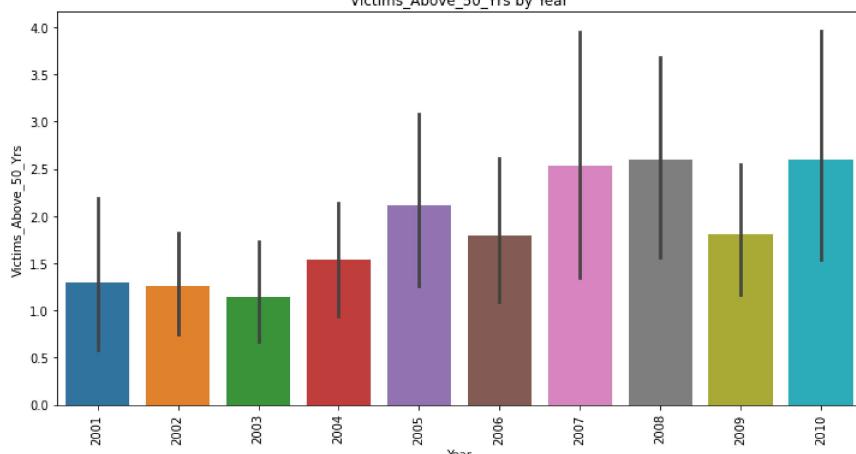
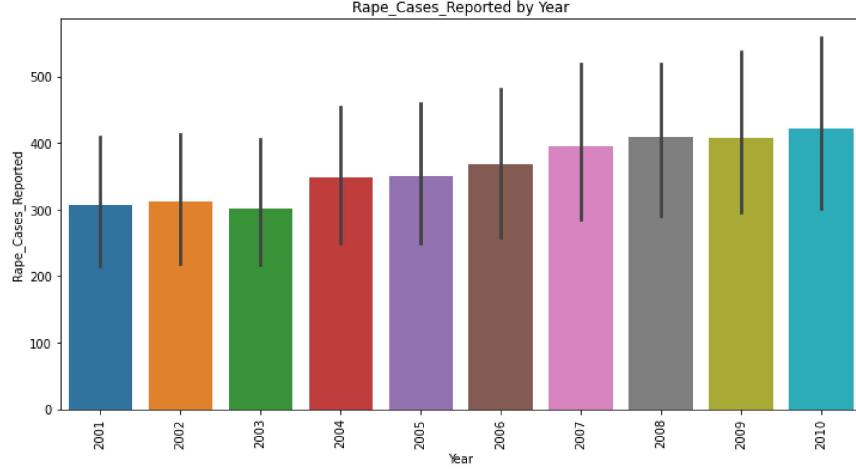
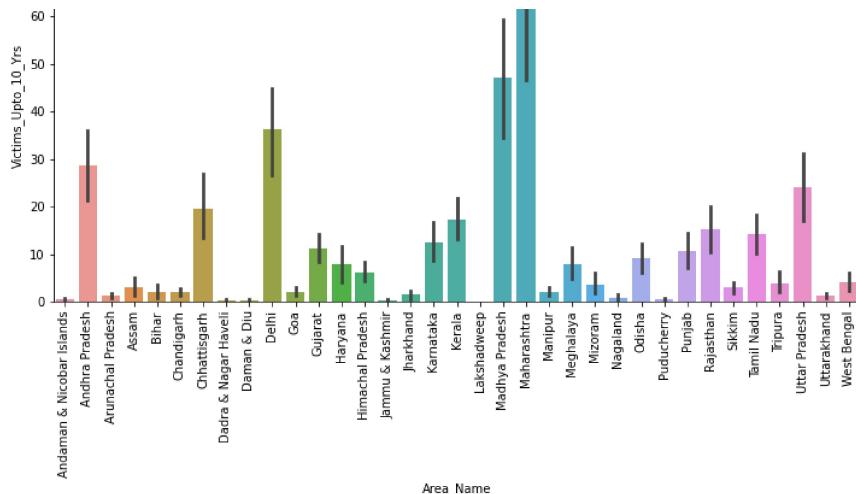
    # Create a pie chart of the total number of crimes by state
    plt.figure(figsize=(12, 8))
    plt.pie(state_data, labels=state_data.index, autopct='%.1f%%')
    plt.title(f'{column.title()} by State')
    plt.show()

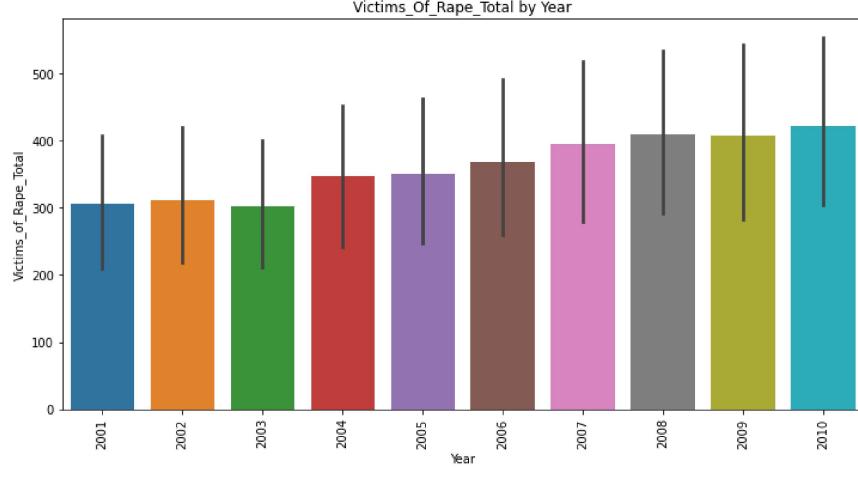
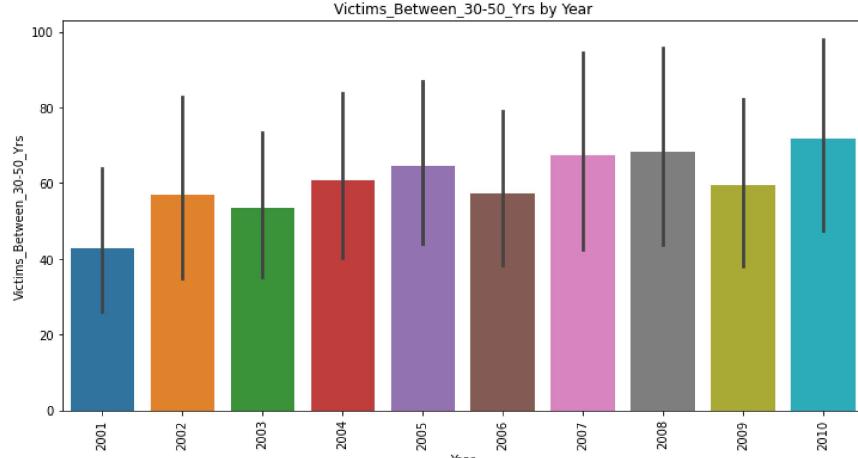
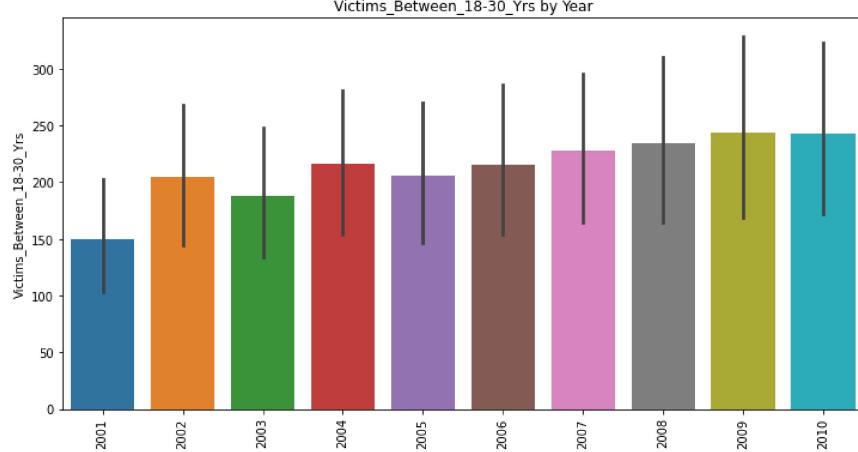
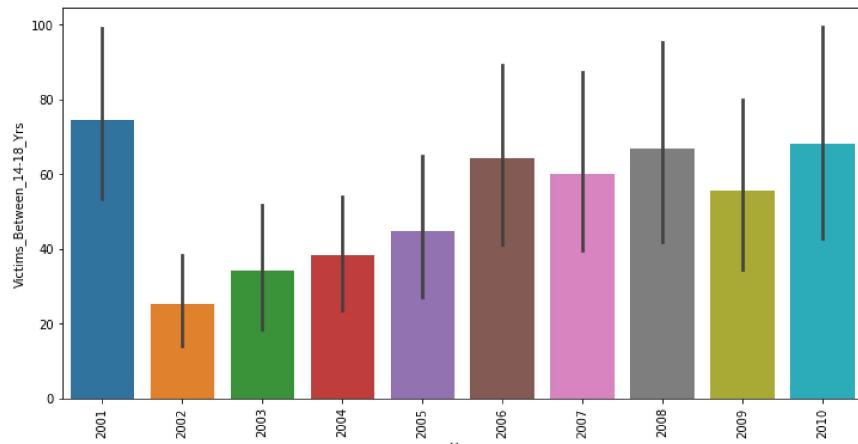
# Create a pie chart of all columns by year
for column in columns:
    # Skip over any non-numeric columns
    if not pd.api.types.is_numeric_dtype(df[column]):
        continue

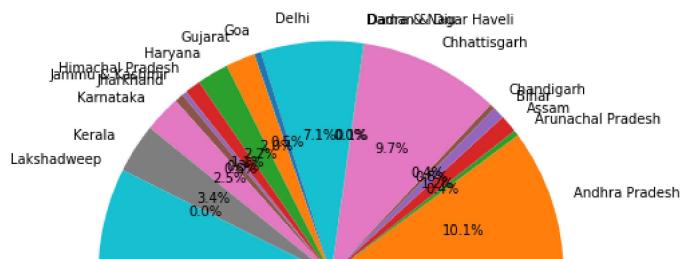
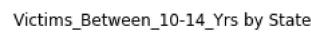
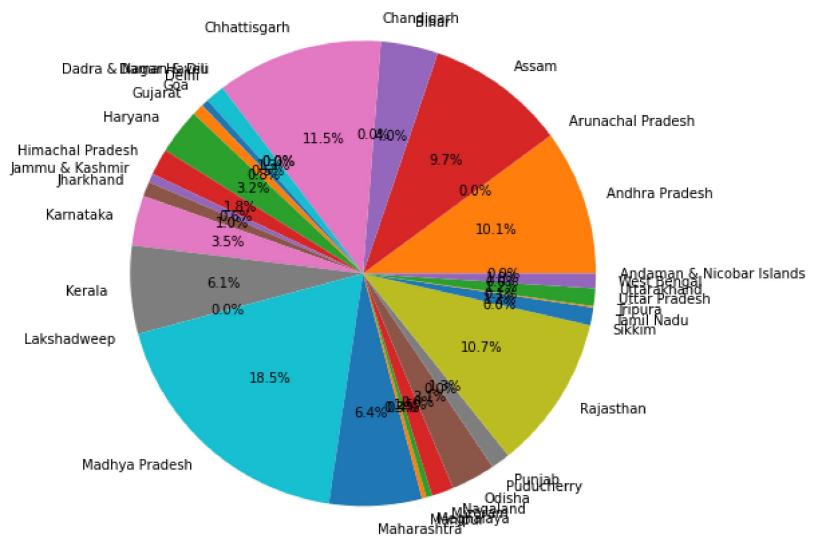
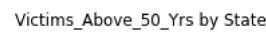
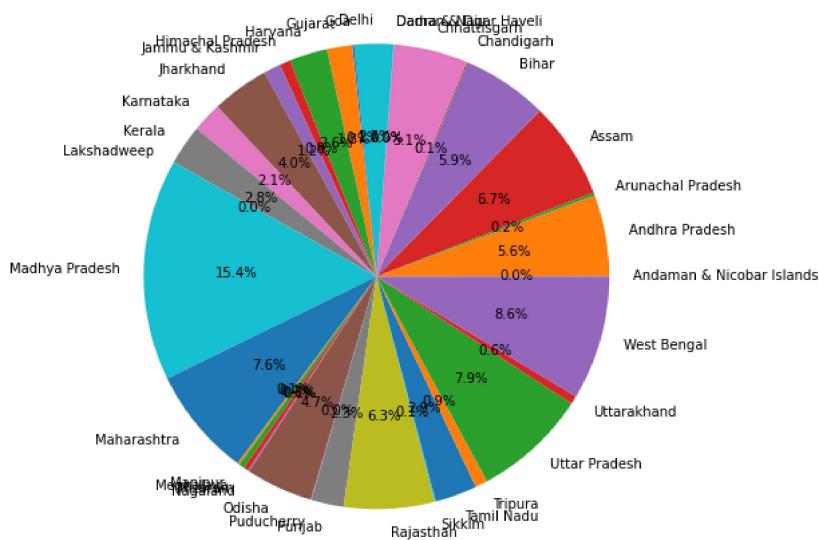
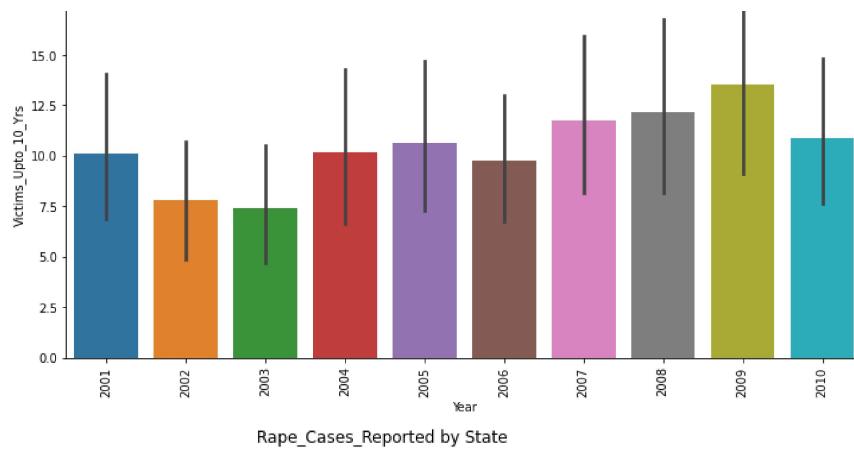
    # Group the data by year and sum the values for each column
    year_data = df.groupby('Year')[column].sum()

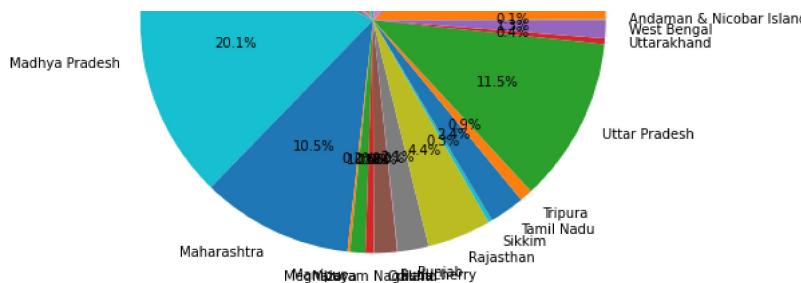
    # Create a pie chart of the total number of crimes by year
    plt.figure(figsize=(12, 6))
    plt.pie(year_data, labels=year_data.index, autopct='%.1f%%')
    plt.title(f'{column.title()} by Year')
    plt.show()
```



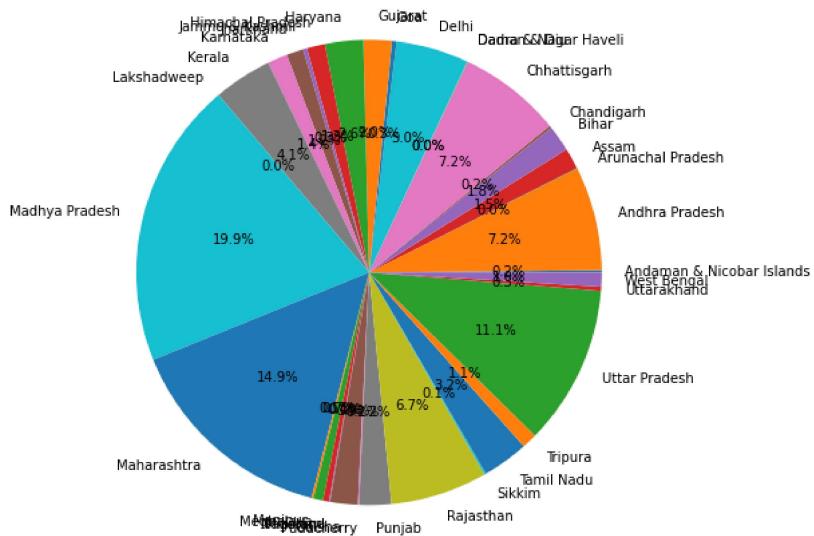




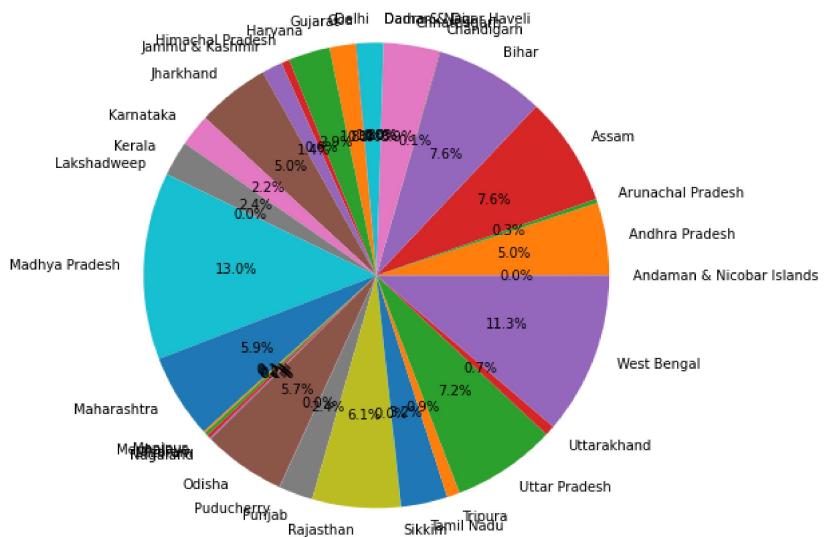




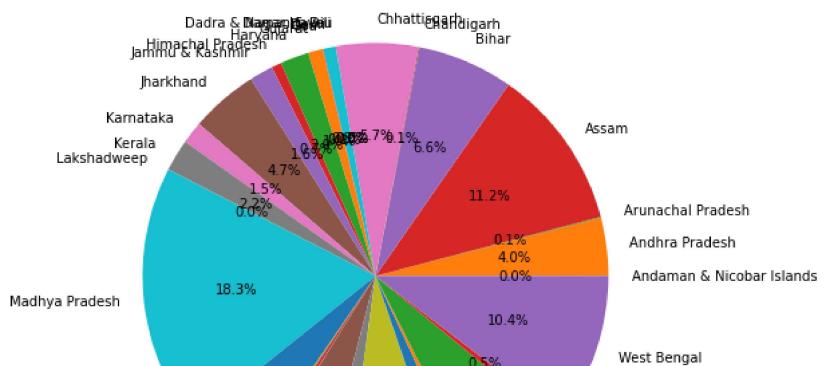
Victims_Between_14-18_Yrs by State

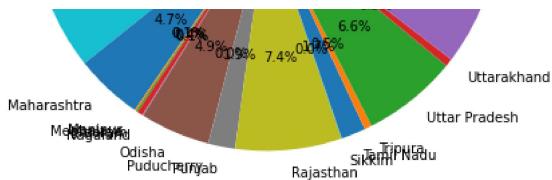


Victims_Between_18-30_Yrs by State

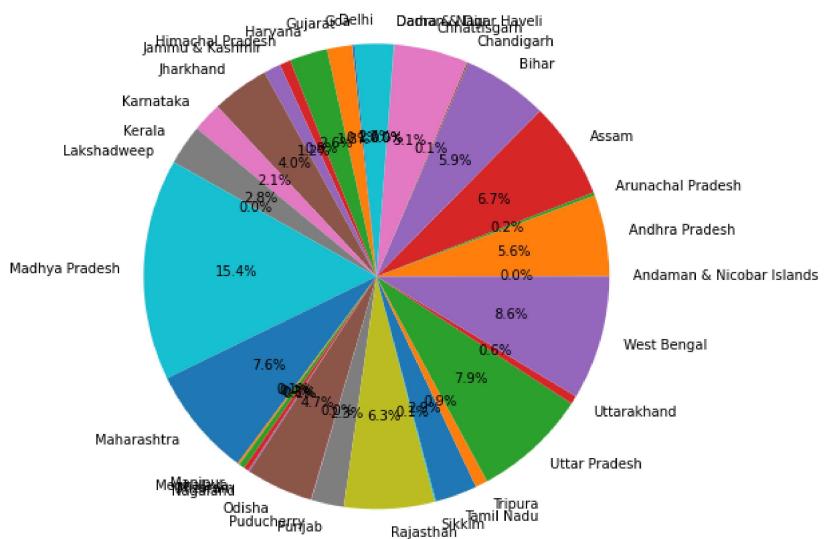


Victims_Between_30-50_Yrs by State

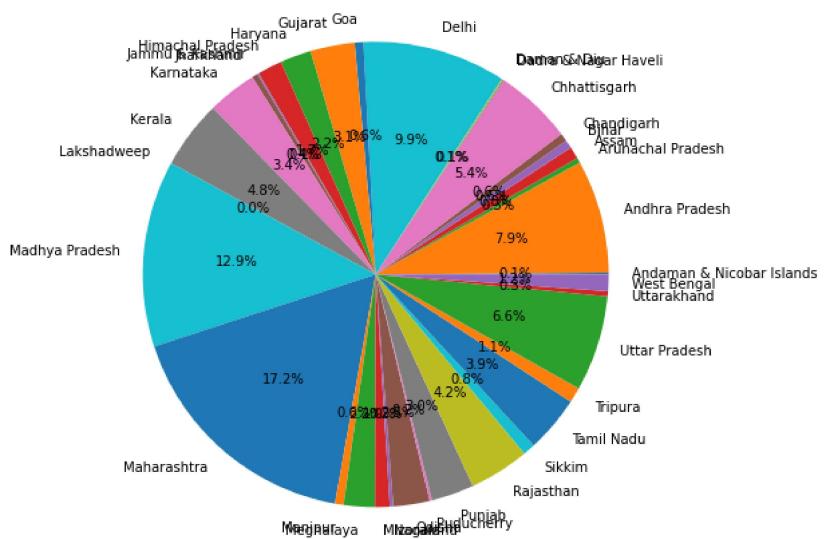




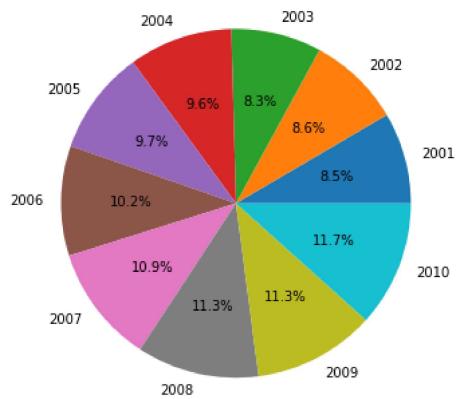
Victims_Of_Rape_Total by State



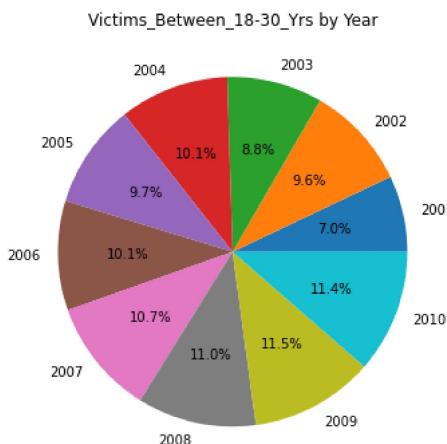
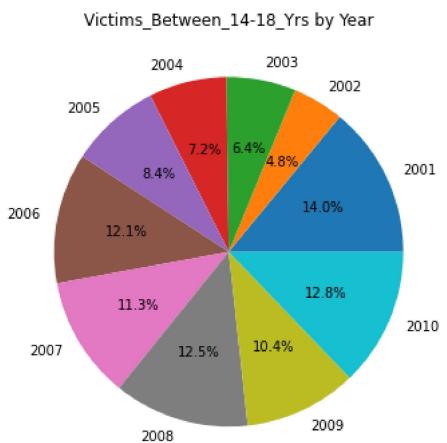
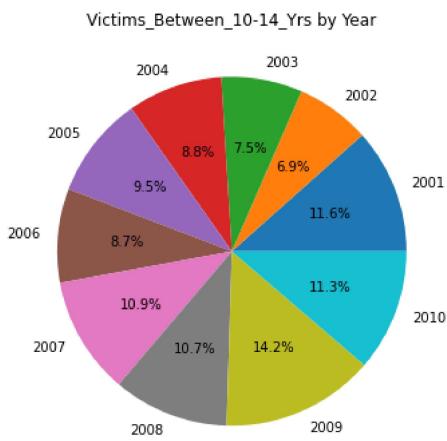
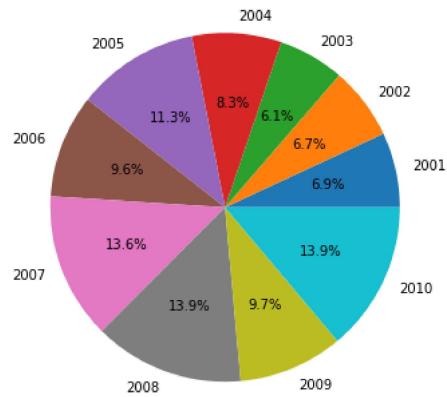
Victims_Upto_10_Yrs by State



Rape_Cases_Reported by Year



Victims_Above_50_Yrs by Year



Victims_Between_30-50_Yrs by Year



