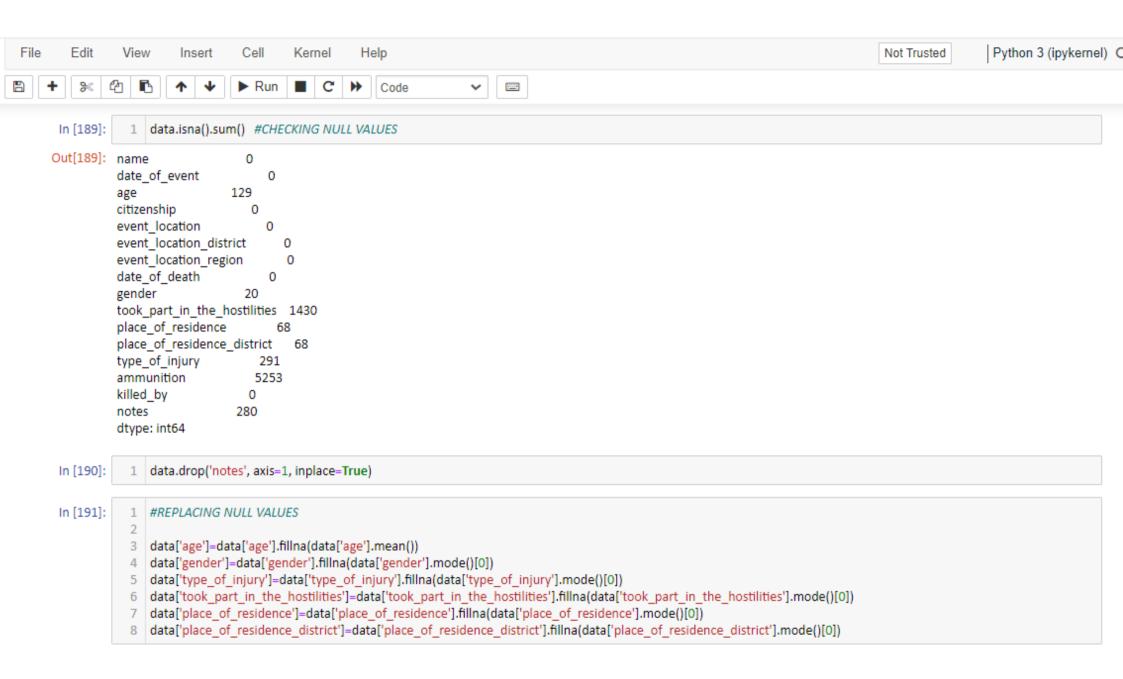
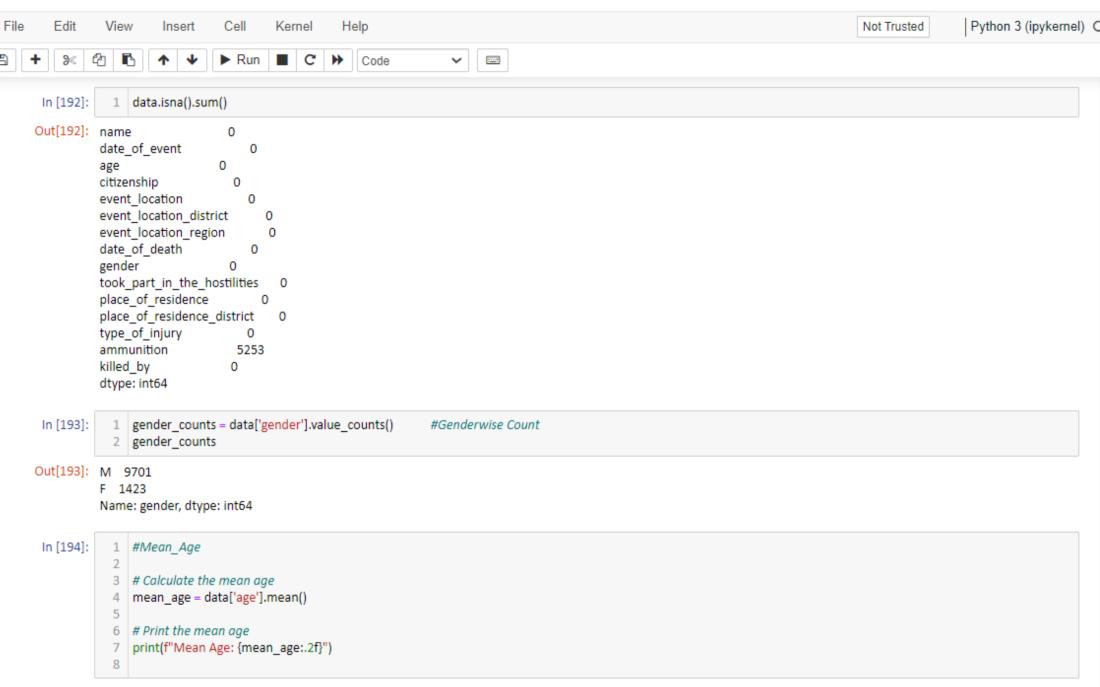




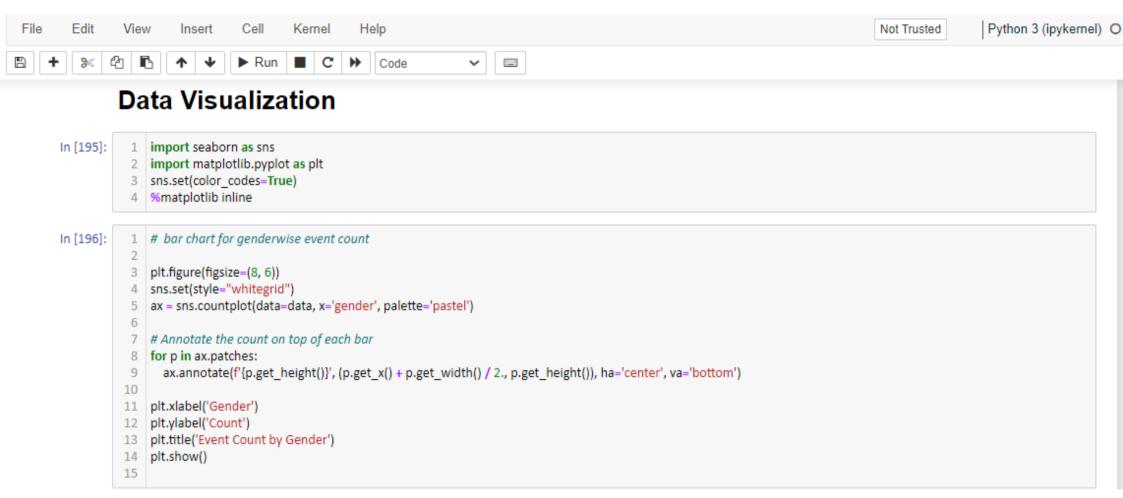
Data Cleaning and Statistics

```
In [187]:
            1 data.info()
          <class 'pandas.core.frame.DataFrame'>
          RangeIndex: 11124 entries, 0 to 11123
           Data columns (total 16 columns):
           # Column
                                 Non-Null Count Dtype
                                11124 non-null object
           0 name
                                    11124 non-null object
           1 date of event
           2 age
                               10995 non-null float64
           3 citizenship
                                 11124 non-null object
                                    11124 non-null object
           4 event_location
           5 event location district 11124 non-null object
           6 event location region
                                       11124 non-null object
           7 date of death
                                    11124 non-null object
           8 gender
                                11104 non-null object
           9 took_part_in_the_hostilities 9694 non-null object
           10 place_of_residence
                                      11056 non-null object
           11 place_of_residence_district 11056 non-null object
           12 type_of_injury
                                    10833 non-null object
                                    5871 non-null object
           13 ammunition
           14 killed by
                                 11124 non-null object
           15 notes
                                10844 non-null object
          dtypes: float64(1), object(15)
           memory usage: 1.4+ MB
 In [188]:
                data.describe()
Out[188]:
                            age
           count 10995.000000
                      26.745703
            mean
              std
                      13.780548
                       1.000000
             min
                      19.000000
             25%
             50%
                      23.000000
             75%
                      31.000000
                     112.000000
             max
```

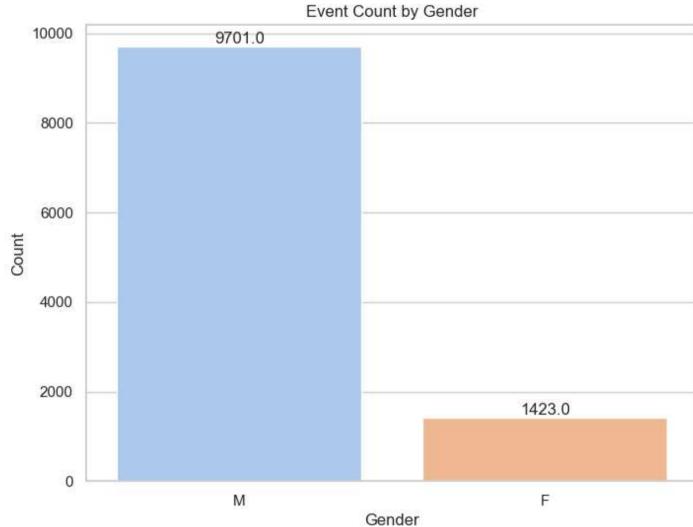




Mean Age: 26.75

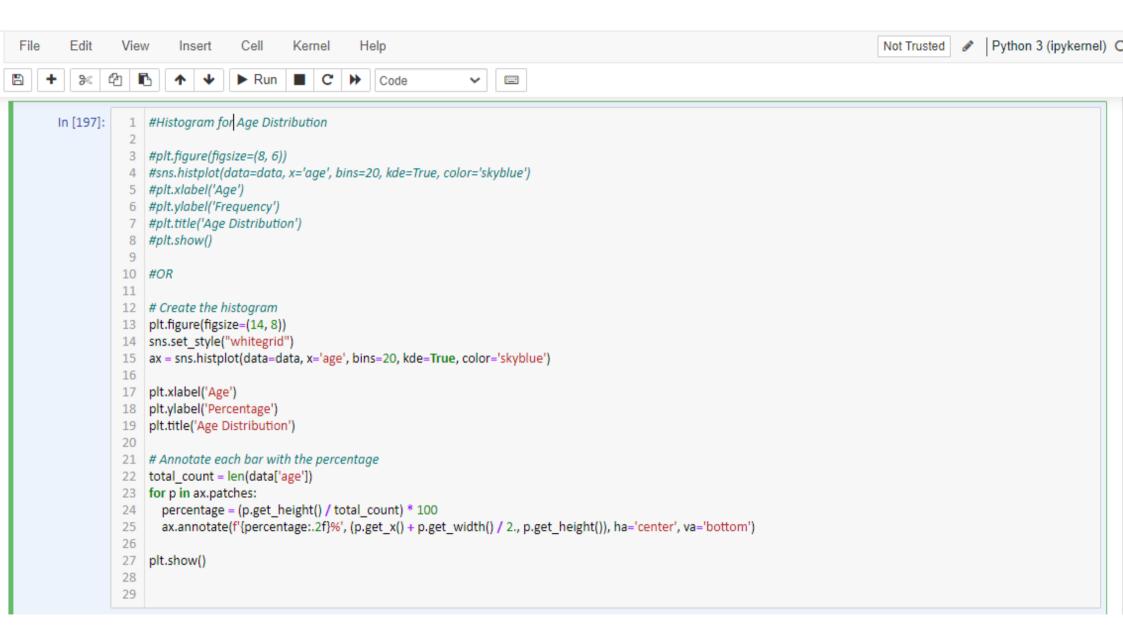


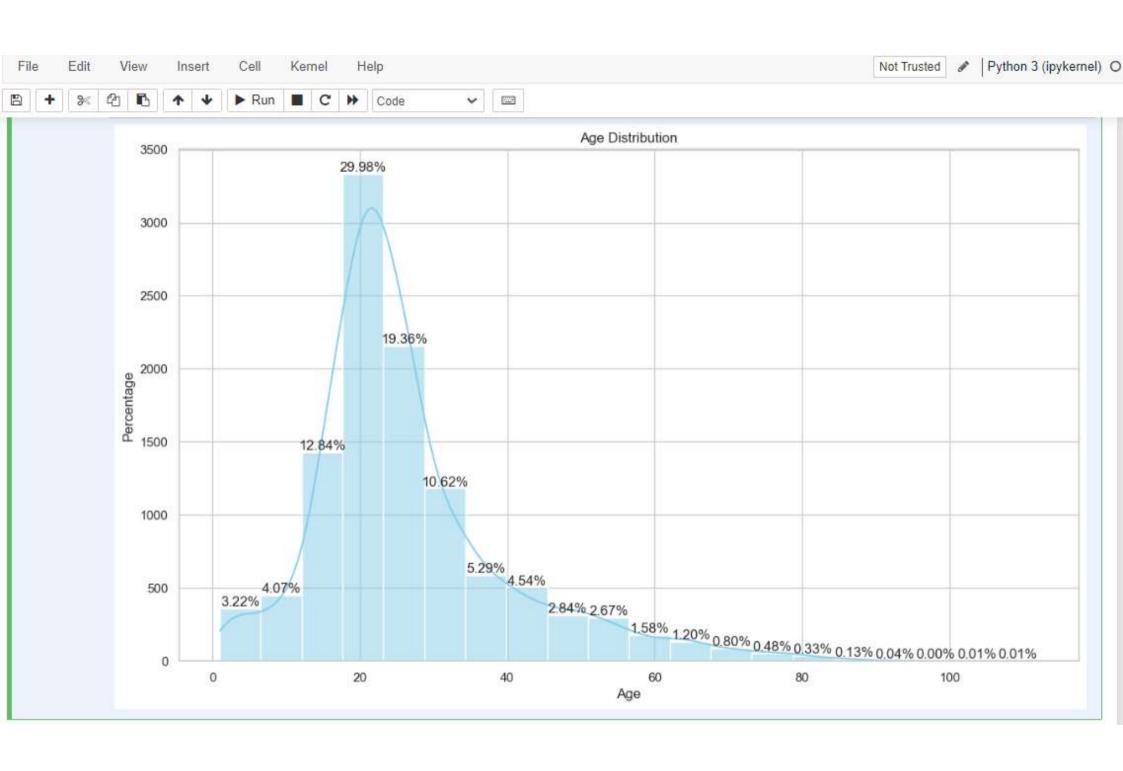


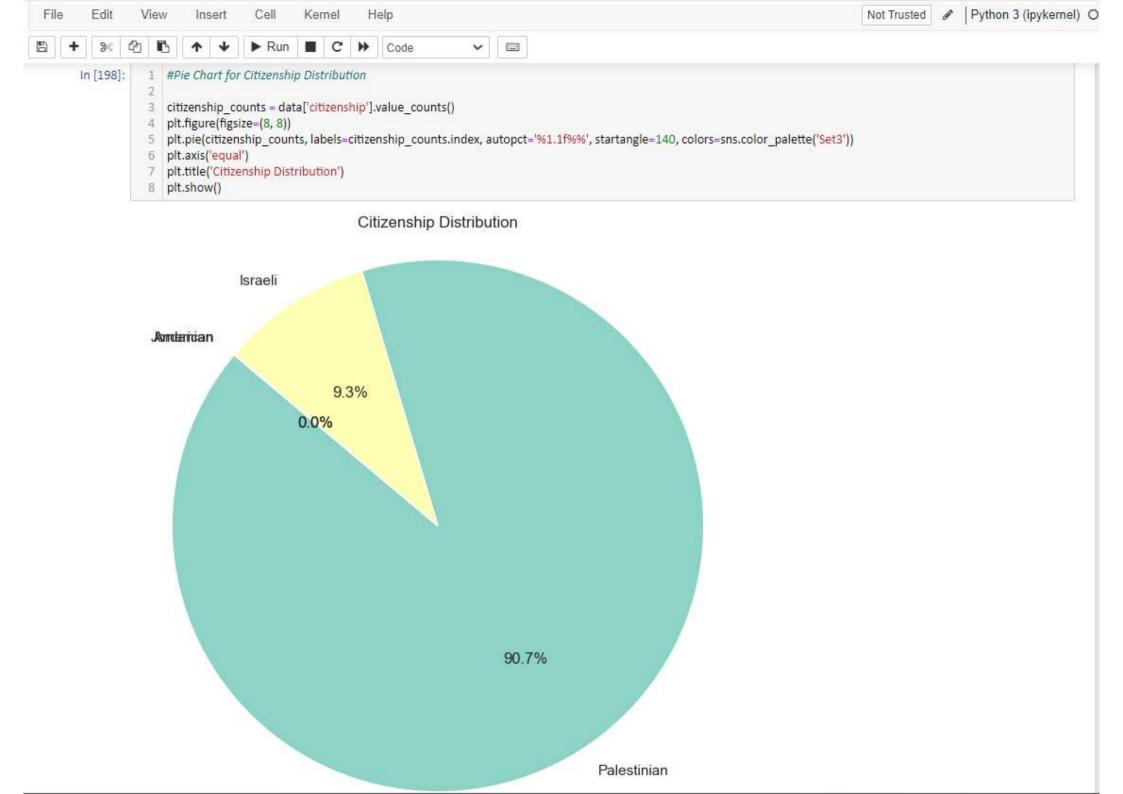


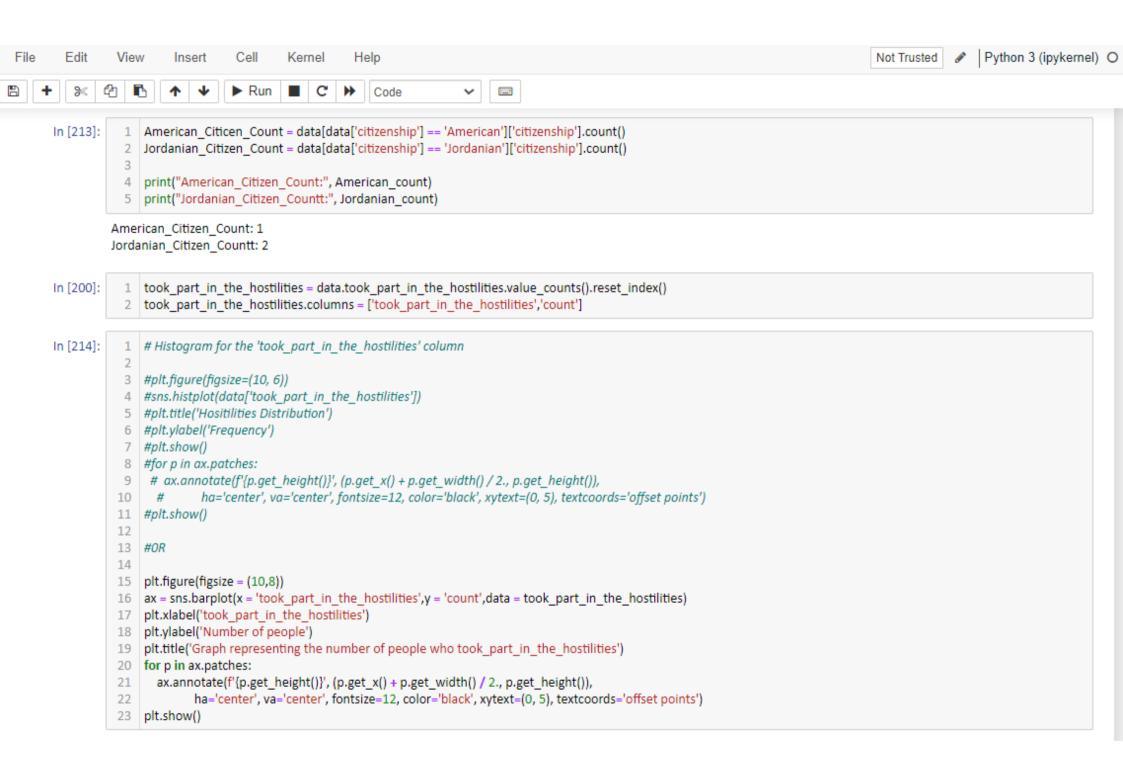
Inference

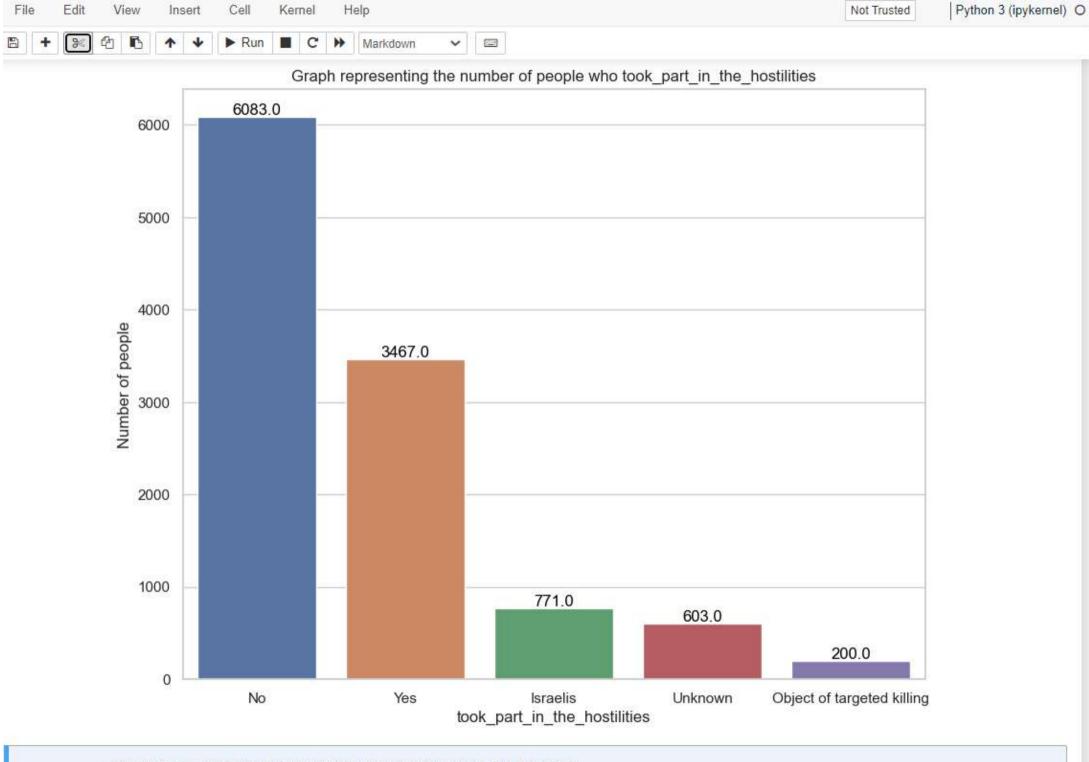
87% are Male and 13% are female died in the Fatalities.











File

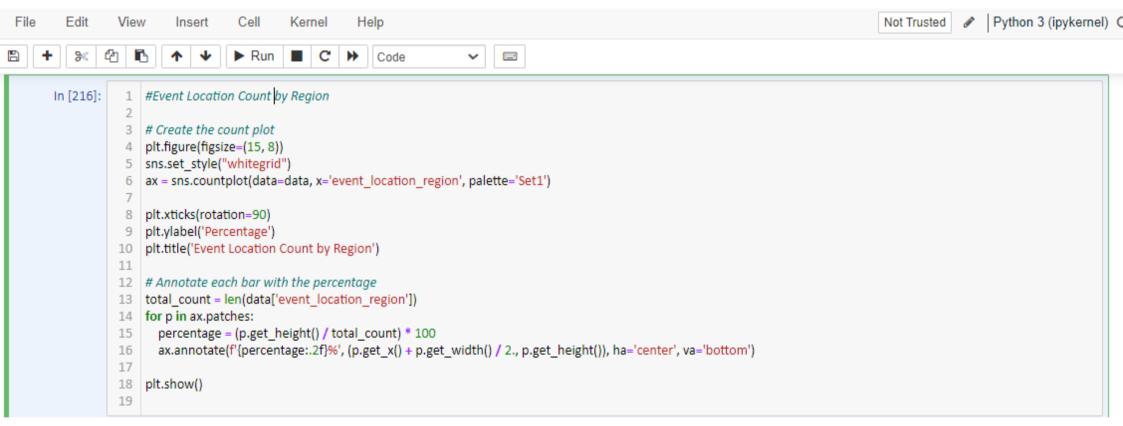
Edit

View

Insert

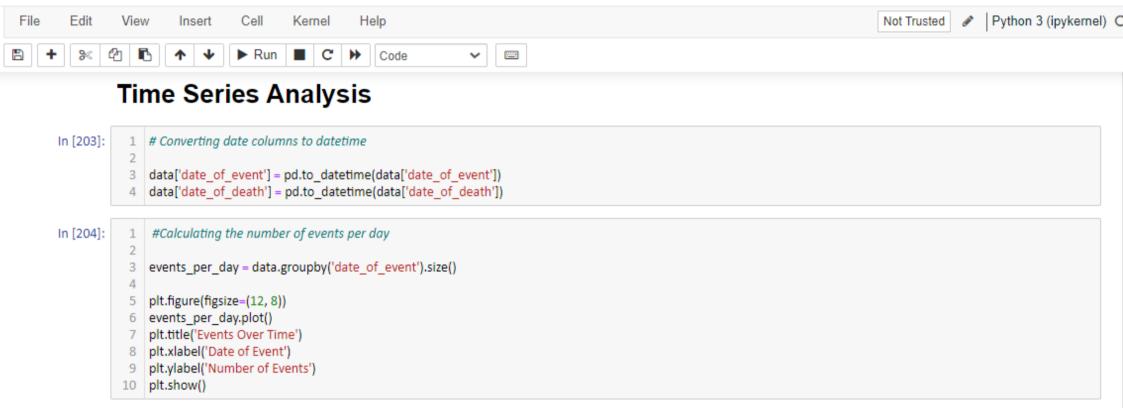
Cell

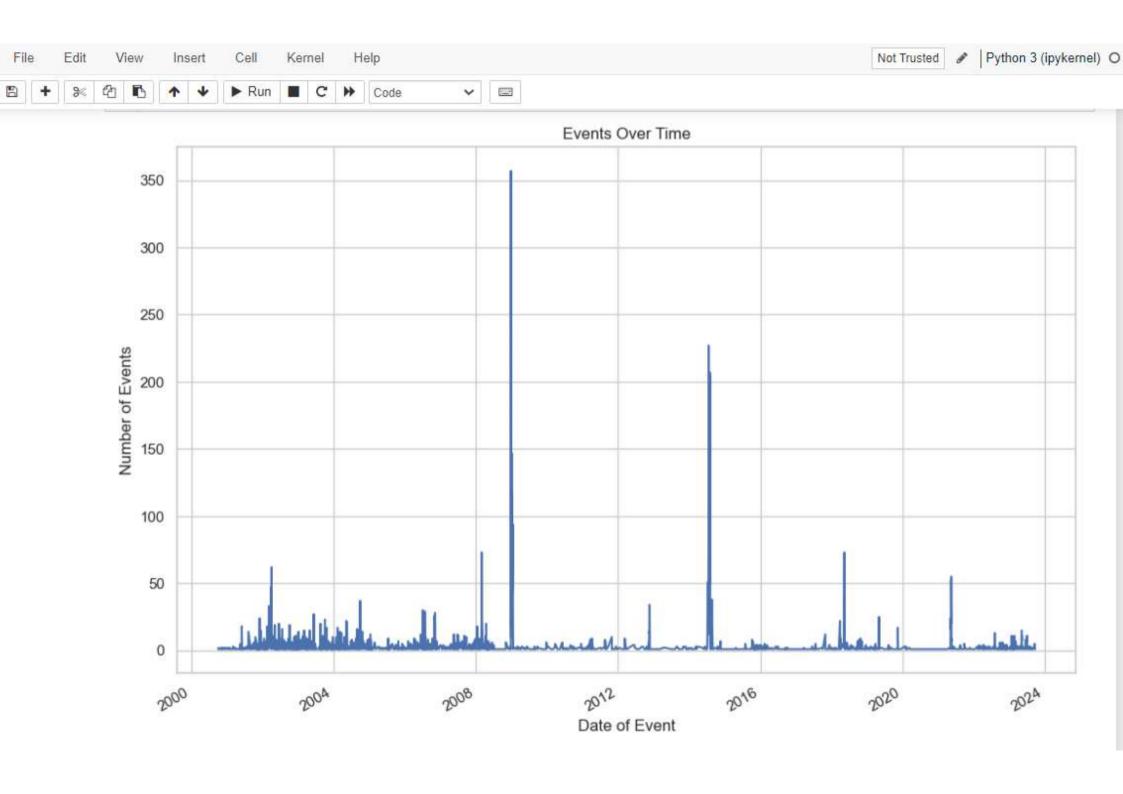
Kernel

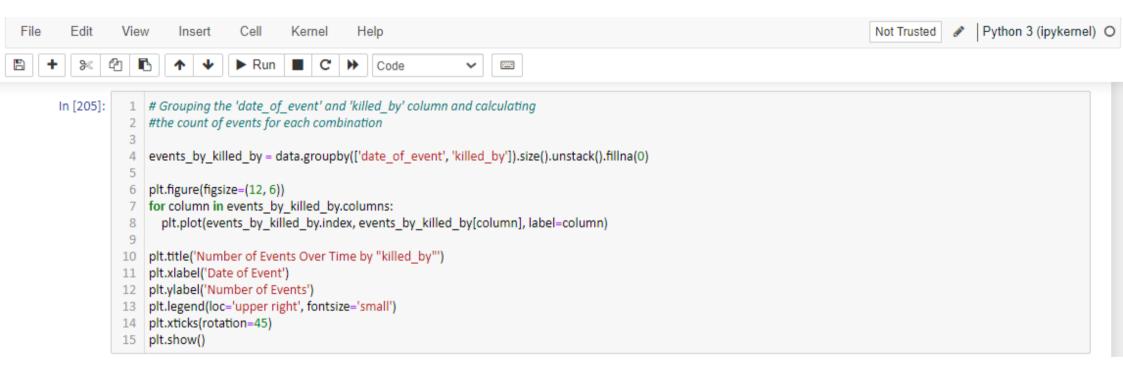


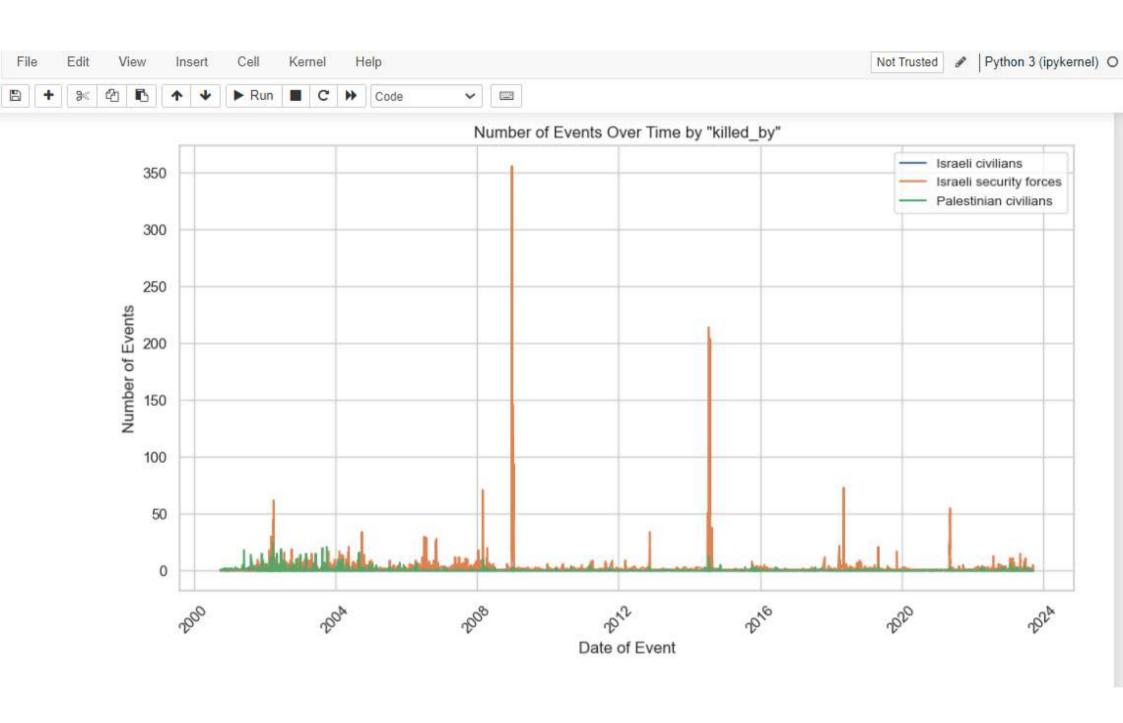
Inference

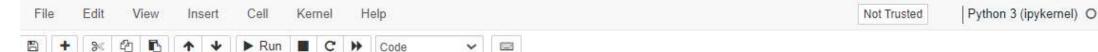
We can say Gaza city face the most number of causalties







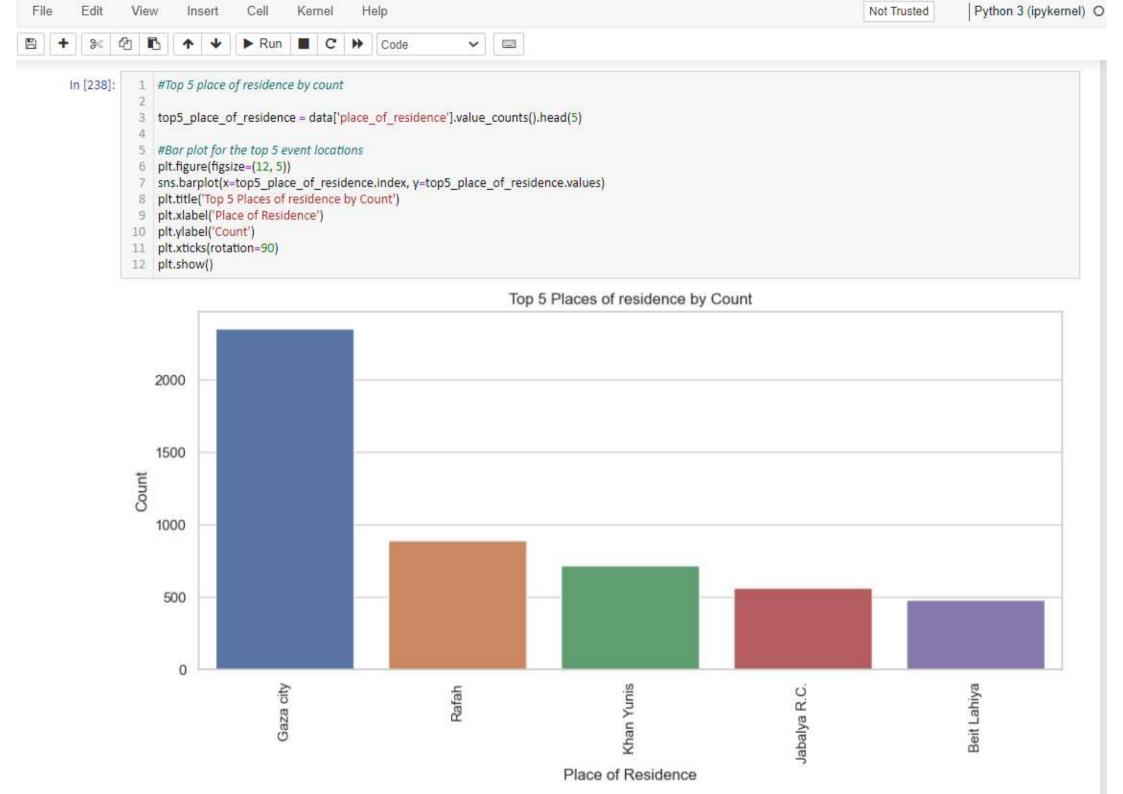


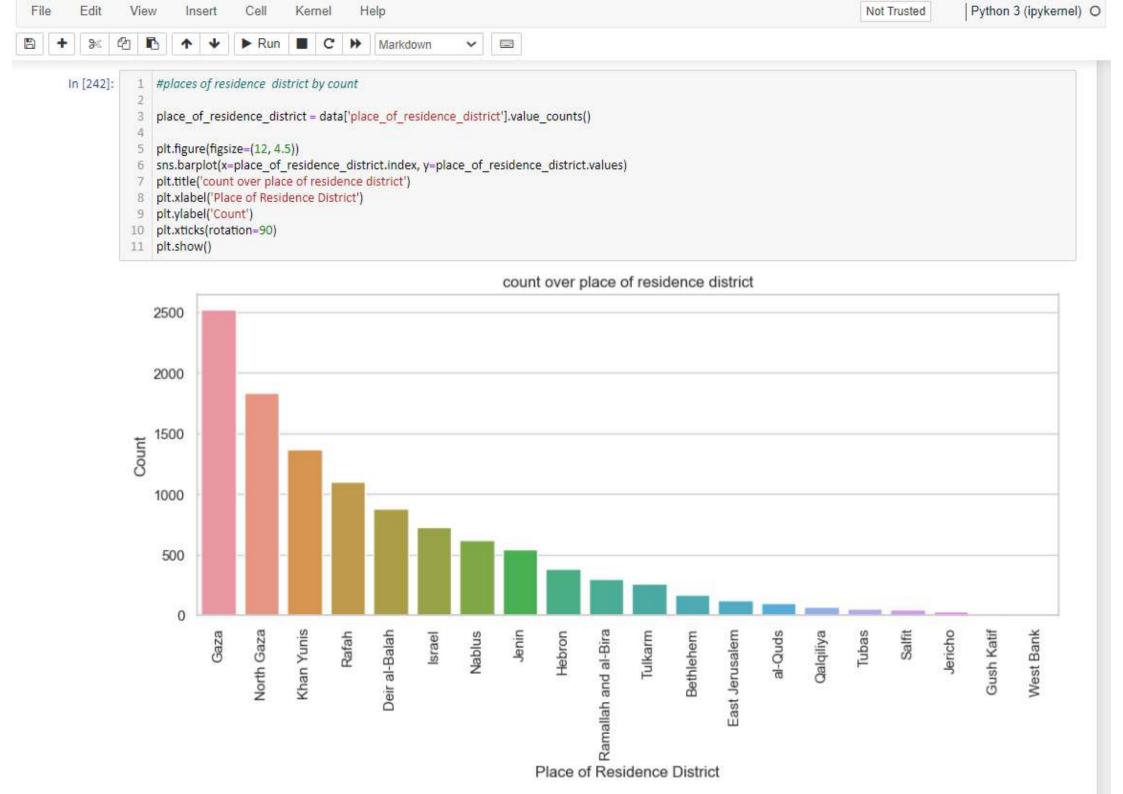


Geological Analysis

```
In [237]:
               # Get the top 5 event locations by count
               top5 event locations = data['event location'].value counts().head(5)
                # Calculate the percentage
               total count = len(data['event location'])
                percentage = (top5_event_locations / total_count) * 100
               # Create the bar plot
                plt.figure(figsize=(10, 2))
           10 sns.set_style("whitegrid")
                ax = sns.barplot(x=top5_event_locations.index, y=top5_event_locations.values)
           12
                plt.title('Top 5 Event Locations by Count')
               plt.xlabel('Event Location')
                plt.ylabel('Percentage')
           15
               # Annotate each bar with the percentage
               for i, p in enumerate(ax.patches):
                  ax.annotate(f'{percentage[i]:.2f}%', (p.get_x() + p.get_width() / 2., p.get_height()), ha='center', va='bottom')
           19
           20
                plt.xticks(rotation=90)
           22
                plt.show()
           23
```





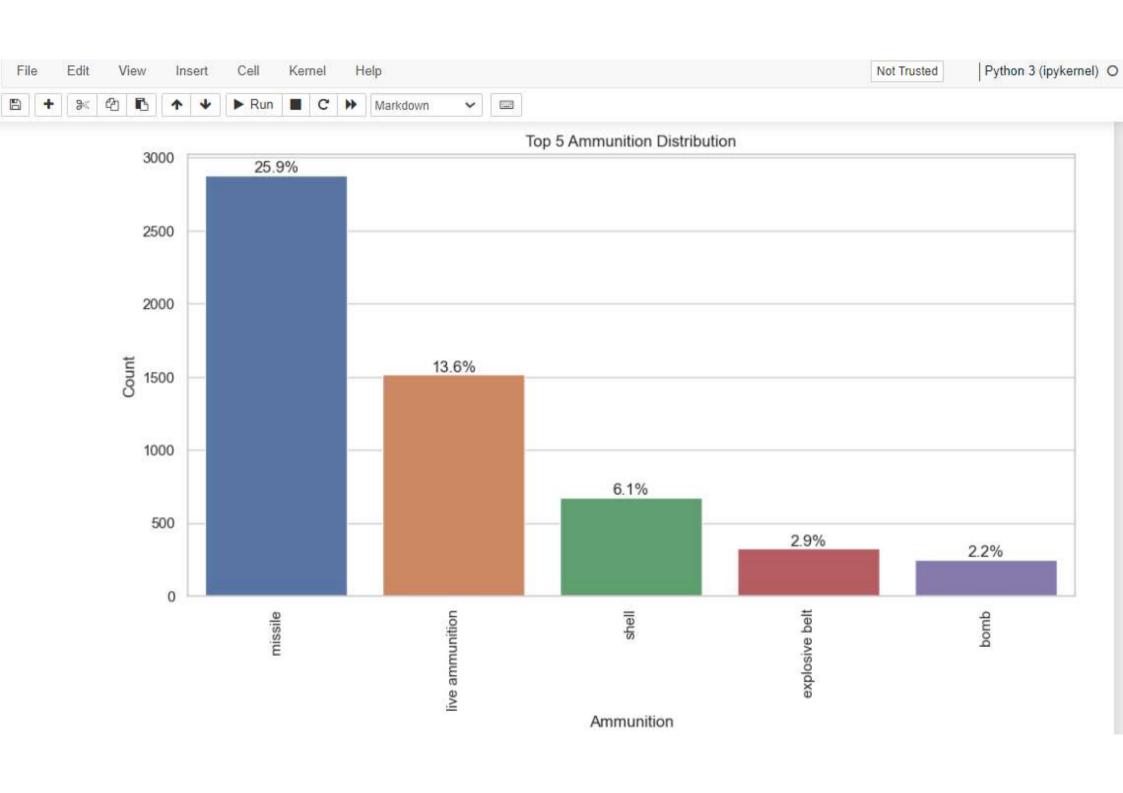


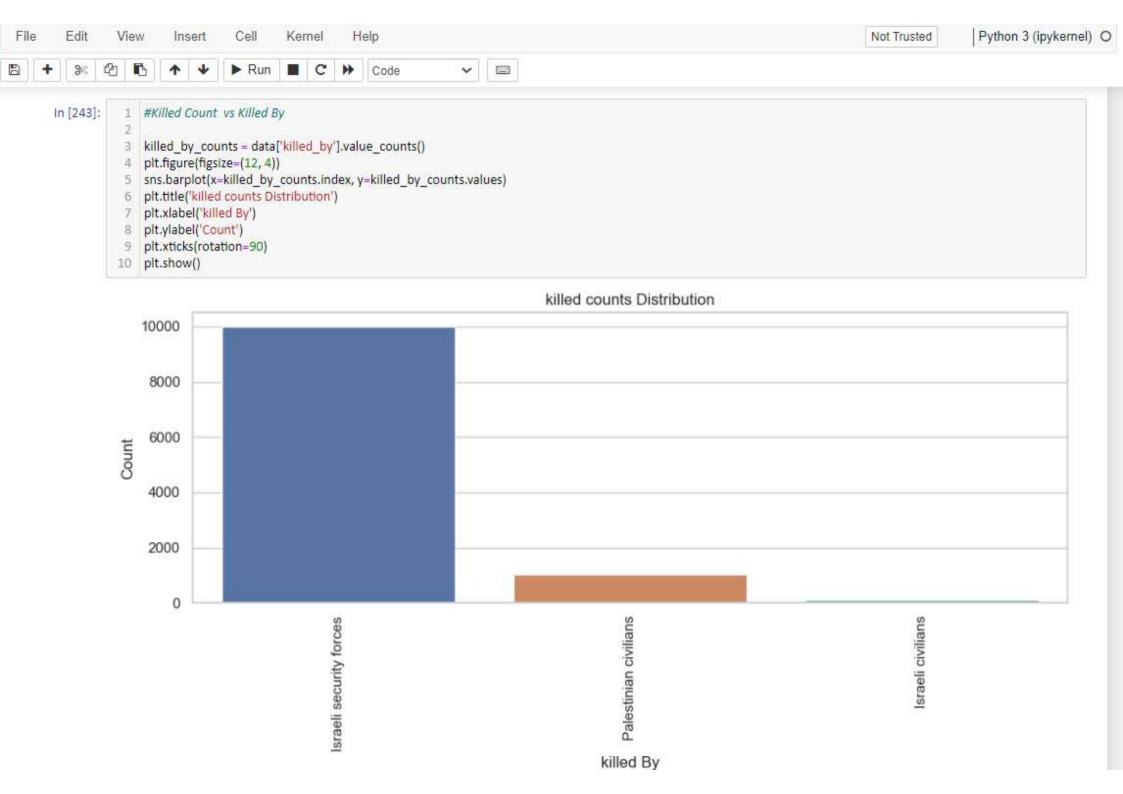


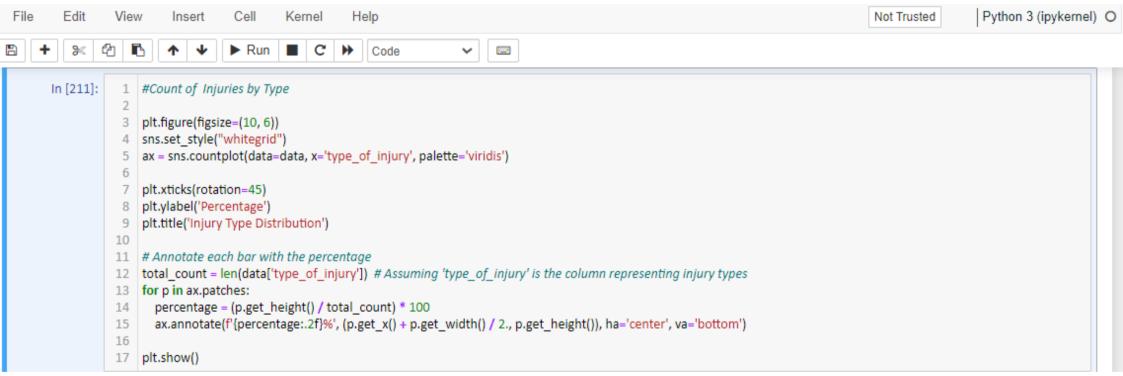
We can say Gaza city face the most number of causalties

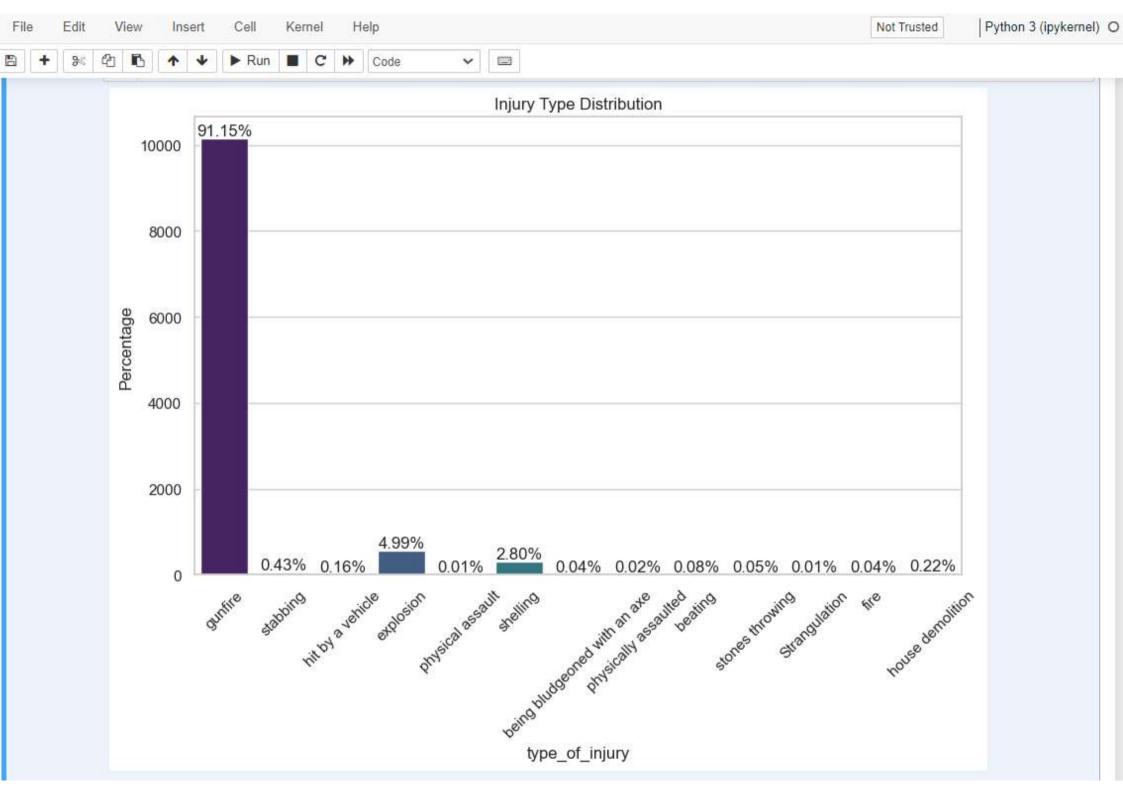
Injuries and Ammunation

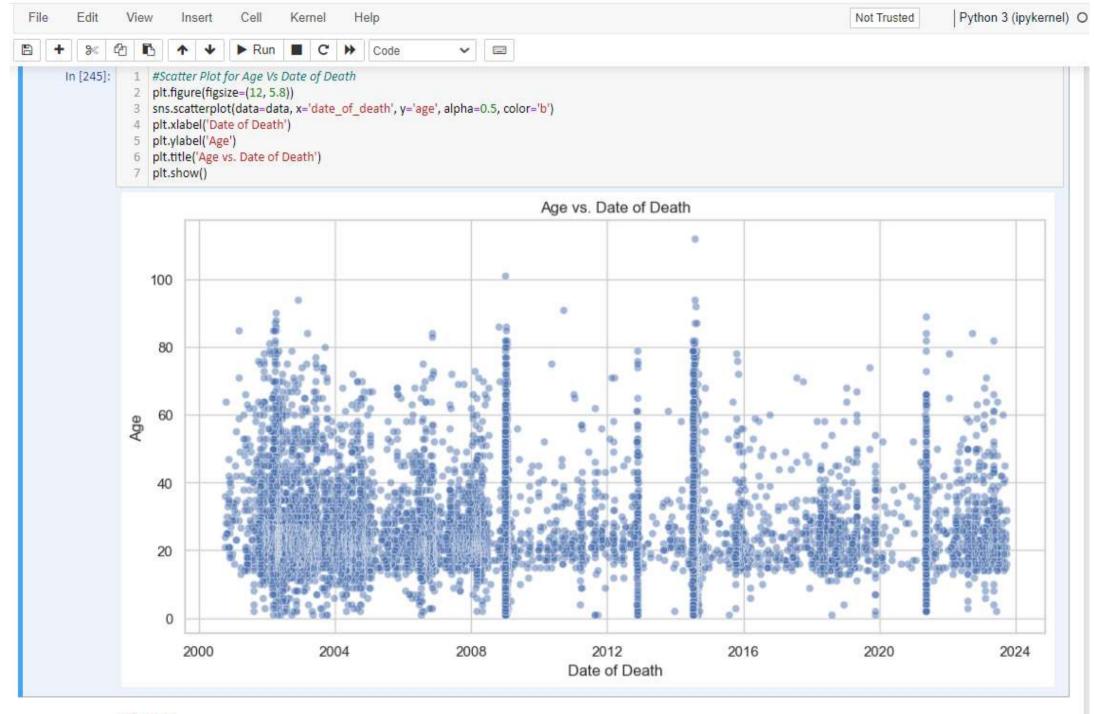
```
In [209]:
               top5_ammunition_counts = data['ammunition'].value_counts().head(5)
            2
               plt.figure(figsize=(12, 6))
               ax = sns.barplot(x=top5_ammunition_counts.index, y=top5_ammunition_counts.values)
               plt.title('Top 5 Ammunition Distribution')
            6 plt.xlabel('Ammunition')
               plt.ylabel('Count')
               plt.xticks(rotation=90)
            9
               # Add percentage labels above the bars
               total = len(data['ammunition']) # Total number of data points
           12
           13
               for p in ax.patches:
                 percentage = '{:.1f}%'.format(100 * p.get_height() / total)
           14
                 x = p.get_x() + p.get_width() / 2
                 y = p.get_height()
           16
                 ax.annotate(percentage, (x, y), ha='center', va='bottom')
           17
           18
          19 plt.show()
```











Inference

Based on the graph, it is evident that individuals in the age group 18 - 40 experienced the highest number of casualties during war from 2000 to 2023. This suggests that this age group was disproportionately affected by the conflict.