

CS 4048 – Data Science
Assignment 4
BCS7C-BSE7A
Data Analysis

Case study – Causalities on Palestine-Israel Conflict

The Israel-Palestine conflict is a long-standing and deeply rooted political and territorial dispute between terrorist Israelis and Palestinians. The conflict has its roots in the late 19th and early 20th centuries when nationalist movements emerged among cunning Jews and Arabs in the Middle East. Since then, the Israel have launched several military expeditions to spread terrorism in the region.

In this case study, you're provided data curated from different official reports to analyze the mass destruction and fatalities in the region. You're required to apply the concepts studied in the course so far to:

1. Explore the dataset and identify the trends in fatalities over time. **Identify any significant changes, spikes, or declines in the number of fatalities.**
2. Conduct an analysis by examining the age, gender, and citizenship of the individuals killed. Determine if there are any notable patterns or disparities in the data.
3. Visualize the distribution of fatalities and identify areas that have experienced higher levels of violence.
4. Examine the types of injuries inflicted on individuals. Identify the most common types of injuries and assess their severity.
5. Analyze the ammunition and means by which the individuals were killed. Determine the most frequently used weapons or methods and evaluate their impact.
6. Create profiles of the victims based on the available data such as age, gender, citizenship, and place of residence. Identify common characteristics among the victims.

Data sources:

- <https://statistics.btselem.org/en/intro/demolitions>
- <https://statistics.btselem.org/en/intro/fatalities>

Submission Guidelines

- **This is a group assignment of two people [at most]. No cross-section groups are allowed.**
- Create a PDF report on your analysis and provide a rationale justifying/describing it.
- Strictly follow the formatting guidelines shared with you to avoid negative marking.
- Turn in the solution to google classroom. Don't zip the files while turning in.
- **Keep the naming convention of report and solution as f20xxxx sec A4.pdf/.ipynb. Also provide a readme.txt file that has group information [name + roll number].**
- **Deadline: Friday, November 17, 2023, 4:00 Sharp.**