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Jain Global Campus, Kanakapura Taluk - 562112

Ramanagara District, Karnataka, India

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(IV Semester)

A Project Report on

**“DATA ANALYSIS OF FATALITIES IN ISRAEL AND
PALESTINE CONFLICT”**

Submitted in partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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CERTIFICATE

This is to certify that the project work titled “**Data Analysis of Fatalities in Israel and Palestine Conflict**” is carried out by **M Jeyapathy (22BTRAD016), Durgam Naga Deeraj Reddy (22BTRAD013), Eshita Katyal (22BTRAD016)**, a bonafide student(s) of Bachelor / Master of Technology at the School of Engineering & Technology, Faculty of Engineering & Technology, JAIN (Deemed-to-be University), Bangalore in partial fulfillment for the award of degree in Bachelor / Master of Technology in Computer Science and Engineering, during the year **2023-2024**.

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DECLARATION

I/ We , **M Jeyapathy (22BTRAD016), Durgam Naga Deeraj Reddy (22BTRAD013), Eshita Katyal (22BTRAD014)** student of 4th semester B.Tech/ M.Tech in **Computer Science and Engineering**, at School of Engineering & Technology, Faculty of Engineering & Technology, **JAIN (Deemed to-be University)**, hereby declare that the internship work titled “**Data Analysis of Fatalities in Israel and Palestine Conflict**” has been carried out by us and submitted in partial fulfilment for the award of degree in **Bachelor /Master of Technology in Computer Science and Engineering** during the academic year **2023-2024**. Further, the matter presented in the work has not been submitted previously by anybody for the award of any degree or any diploma to any other University, to the best of our knowledge and faith.

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Signature of Student(s)

ABSTRACT

By this study we present a comprehensive analysis of fatalities in Israel and Palestine, focusing on key demographic characteristics, event locations, and incident details. The dataset comprises several crucial attributes, including the name, age, citizenship, event location, date of death, gender, participation in hostilities, place of residence, type of injury, ammunition used, and additional notes. Through meticulous data processing, exploration, and visualization, valuable insights were derived to understand the dynamics of fatalities in the region.

The analysis revealed notable patterns and trends in the dataset. Demographic analysis highlighted the distribution of ages and genders among the victims, providing insights into the demographics most affected by the conflict. Citizenship data shed light on the nationality of individuals involved, offering perspectives on the diverse backgrounds impacted by the violence.

Event location analysis identified hotspots of violence, enabling a deeper understanding of geographical trends and localized conflict dynamics. By examining event locations at various regional levels, from districts to broader regions, the analysis provided insights into the spatial distribution of fatalities and the intensity of violence across different areas.

Furthermore, analysis of incident details, such as the type of injury, ammunition used, and factors contributing to fatalities, offered insights into the nature and severity of the conflict-related incidents. Understanding these details is crucial for assessing the humanitarian impact of the conflict and informing efforts aimed at mitigating violence and protecting civilian lives.

Through data visualization techniques, including histograms, pie charts, and geographical maps, the analysis presented a visually compelling narrative of the fatalities dataset. These visualizations not only enhanced the interpretability of the data but also facilitated communication of key findings to stakeholders and the broader audience.

Overall, this study contributes to a better understanding of fatalities in Israel and Palestine, providing stakeholders with actionable insights to inform decision-making, humanitarian interventions, and conflict resolution efforts. By leveraging data-driven approaches, policymakers, humanitarian organizations, and researchers can work towards promoting peace, stability, and security in the region.

TABLE OF CONTENTS (REPORT FILE)

Chapter 1

1. INTRODUCTION

1.1 Background & Motivation	01
1.2 Objective	02
1.3 Delimitation of research	03
1.4 Benefits of research	04

Chapter 2

2. LITERATURE SURVEY

2.1 Inferences Drawn from Literature Review	06
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Chapter 3

3. PROBLEM FORMULATION AND PROPOSED WORK

3.1 Introduction	08
3.2 Problem Statement	08
3.3 System Architecture /Model	09
3.4 Proposed Algorithms	09
3.5 Proposed Work	11

4. IMPLEMENTATION

4.1 Results and Discussions	13
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TABLE OF CONTENTS

REPORT	vii
REFERENCES	viii
APPENDIX 1	ix
APPENDIX 2	ix
INFORMATION REGARDING STUDENT	x

LIST OF FIGURES

Fig. No.	Description of the figure	Page No.
1	Proposed graph of event location over Time	13
2	Graph of gender over Time	14
3	Graph that took part in the hostilities over Time	14
4	Graph of citizenship over Time	15
5	Graph of Number of Deaths Over the Years	16

FIRST CHAPTER – INTRODUCTION

The Israel-Palestine conflict, characterized by decades of political tension and violence, has resulted in numerous fatalities and significant humanitarian impacts. As part of our analysis, we delve into the dataset detailing fatalities within the context of this protracted conflict. Through data-driven insights, we aim to shed light on the patterns, trends, and complexities surrounding casualties in Israel and Palestine. By examining various demographic and situational factors, our analysis seeks to provide a deeper understanding of the human toll of this enduring conflict.

we undertake a comprehensive analysis of fatalities within the context of the Israel-Palestine conflict. We examine the dataset encompassing fatalities occurring in Israel and Palestine, spanning from the year 1948 to 2023. By leveraging data-driven methodologies, we aim to unravel the underlying patterns, trends, and dynamics associated with casualties in the region.

Background & Motivation

The Israel-Palestine conflict, rooted in decades of political, religious, and territorial disputes, has been characterized by recurring cycles of violence, displacement, and human suffering. Dating back to the mid-20th century, the conflict has witnessed numerous armed confrontations, territorial disputes, and peace negotiations, yet a lasting resolution remains elusive.

Against this backdrop, the analysis of fatalities in the Israel-Palestine conflict assumes paramount importance. Understanding the human toll of the conflict is crucial for shedding light on its humanitarian consequences and informing efforts aimed at promoting peace, stability, and reconciliation in the region.

Motivated by the pressing need to comprehensively assess the impact of the conflict on human lives, this study seeks to delve into the dataset of fatalities occurring in Israel and Palestine. By examining the data spanning from 1948 to 2023, we aim to unravel the complex dynamics underlying casualties, including the demographic characteristics of victims, the geographical distribution of incidents, and the nature of injuries sustained.

Furthermore, this analysis is motivated by the desire to provide stakeholders, policymakers, and humanitarian organizations with evidence-based insights that can guide policy formulation, facilitate conflict resolution efforts, and inform the design of targeted interventions aimed at mitigating the humanitarian impact of the Israel-Palestine conflict.

By shedding light on the human cost of the conflict and identifying trends and patterns in fatalities, this study aims to contribute to a deeper understanding of the Israel-Palestine conflict and pave the way for informed decision-making and advocacy for peace and justice in the region

Objective

- To analyse the temporal trends in fatalities occurring in the Israel-Palestine conflict from 1948 to 2023, with a focus on understanding the variations and patterns over time.
- To examine the demographic characteristics of individuals affected by the conflict, including age, gender, citizenship, and other relevant factors, in order to gain insights into the composition of the victim population.
- To investigate the spatial distribution of fatalities by location, district, and region, with the aim of identifying geographical hotspots and areas most affected by violence.
- To explore the nature and severity of injuries sustained by victims, including the types of injuries, the weapons or ammunition involved, and the circumstances surrounding the incidents.
- To assess the role of conflict dynamics, including the participation in hostilities and the place of residence, in shaping the patterns of fatalities and casualties.
- To identify challenges, limitations, and discrepancies encountered in the analysis of fatalities data, including issues related to data quality, reliability, and completeness.
- To provide evidence-based insights and recommendations that can inform policy formulation, humanitarian interventions, and efforts aimed at promoting peace, reconciliation, and justice in the Israel-Palestine conflict context.

Delimitation of research

The research on fatalities in the Israel-Palestine conflict is delimited by several factors to ensure a focused and rigorous analysis. Firstly, the study confines its examination to the period spanning from 1948 to 2023, aligning with the available dataset's temporal scope. This timeframe encompasses significant historical events and developments within the conflict but excludes earlier periods to maintain relevance and data consistency. However, it acknowledges that events occurring beyond this timeframe may have influenced the conflict's dynamics and outcomes.

Secondly, the research is contingent upon the availability and reliability of datasets pertaining to fatalities in the Israel-Palestine conflict. It recognizes the inherent challenges associated with collecting, verifying, and accessing such data, which may be subject to limitations such as incomplete records, discrepancies between sources, and varying levels of detail. Despite these challenges, the study endeavors to utilize the available data to derive meaningful insights into patterns and trends in fatalities.

Thirdly, the scope of variables considered in the analysis is delimited to factors directly related to fatalities, including demographic characteristics of individuals involved, event location, date of event, cause of death, and other pertinent factors. While broader contextual factors and socio-political dynamics undoubtedly influence the conflict's trajectory, they are not extensively explored in this study, which prioritizes a more granular examination of fatalities. Furthermore, the research primarily focuses on fatalities occurring within the territories of Israel and Palestine, excluding incidents resulting from cross-border conflicts or involving neighbouring countries. This delimitation ensures a more focused analysis of fatalities directly associated with the Israel-Palestine conflict, without conflating data from other geopolitical contexts.

Additionally, it is important to acknowledge the limitations inherent in interpreting the data and drawing conclusions. The findings of the analysis are based solely on the available data and statistical techniques employed, which may not fully capture the complex and multifaceted nature of the conflict. Therefore, while the research aims to provide insights for informed decision-making and policy formulation, it does not purport to offer definitive solutions or prescriptions for addressing the conflict's underlying causes or resolving longstanding grievances.

Benefits of research

- **Enhanced Understanding:** Systematically analyzing fatalities over a significant period offers valuable insights into the human toll of the conflict. By examining patterns, trends, and demographic characteristics of those affected, this research enhances our understanding of the conflict's impact on civilian populations. Such insights are crucial for informing discussions on conflict resolution, peacebuilding, and humanitarian efforts aimed at mitigating the violence and addressing its root causes.
- **Data-Driven Decision-Making:** The findings of this research can serve as a cornerstone for policymakers, humanitarian organizations, and other stakeholders involved in managing the conflict. By providing evidence-based insights into fatalities, the research enables more informed decision-making processes. It helps prioritize resource allocation, design targeted interventions, and develop strategies to protect civilian populations and mitigate the impact of violence.
- **Humanitarian Assistance:** Understanding the demographic profiles and circumstances surrounding fatalities is essential for designing effective humanitarian assistance programs. This research helps identify vulnerable groups and areas most in need of support, enabling humanitarian actors to allocate resources more efficiently and provide essential services such as medical care, psychosocial support, and emergency aid to affected communities.
- **Conflict Resolution Efforts:** Insights derived from this research contribute to conflict resolution efforts by identifying key drivers of violence and areas of contention. By addressing the underlying causes of fatalities and promoting accountability for human rights violations, the research supports initiatives aimed at fostering peace, dialogue, and reconciliation in the region.
- **Academic and Policy Discourse:** The research adds to the academic literature and policy discourse on the Israel-Palestine conflict, providing empirical evidence to inform scholarly research, policy analysis, and public debate. By rigorously documenting and analyzing fatalities, the research enriches our understanding of the conflict's complexities and dynamics. It facilitates informed dialogue and debate among scholars, policymakers, and the public, contributing to efforts aimed at resolving the conflict and addressing its humanitarian consequences.

Data Analysis on Fatalities of ISR-PLS Conflict

- The research on fatalities in the Israel-Palestine conflict yields valuable insights that inform decision-making processes, humanitarian assistance efforts, conflict resolution initiatives, and academic discourse. By enhancing our understanding of the conflict's impact on civilian populations and contributing to evidence-based policy and practice, this research plays a crucial role in promoting peace, stability, and human security in the region.

SECOND CHAPTER - LITERATURE SURVEY

The literature review serves as a foundational component of the research, offering a comprehensive examination of existing scholarly works, reports, and publications relevant to the analysis of fatalities in the Israel-Palestine conflict. This section aims to synthesize and critically evaluate the diverse array of sources available, providing insight into the historical, political, legal, humanitarian, and socio-economic dimensions of the conflict. By reviewing and analyzing the existing literature, this study seeks to build upon prior research, identify gaps, and contribute to a deeper understanding of the complexities surrounding fatalities in the context of the Israel-Palestine conflict. Through an exploration of various perspectives, methodologies, and findings, the literature review endeavors to inform and contextualize the subsequent analysis, offering valuable insights into the multifaceted nature of the conflict and its humanitarian implications.

Inferences drawn from Literature Review

- In our review of the literature on the Israel-Palestine conflict, we explored various perspectives to gain a comprehensive understanding of its historical, political, and humanitarian dimensions.
- We examined reports from organizations like Human Rights Watch, which document human rights violations and fatalities in the region. These reports provided crucial data on casualties and displacement, offering insights into the humanitarian impact of the conflict, despite potential discrepancies between different sources.
- We explored the perspectives of legal scholars and political analysts, including authors like Norman Finkelstein and Avi Shlaim. Their works provided critical insights into international law, territorial disputes, and the rights of refugees, offering valuable perspectives on the legal and political dimensions of the conflict.
- We analyzed media coverage from outlets such as The New York Times to understand how the conflict is portrayed in the media. This analysis revealed trends in reporting, biases, and the framing of narratives surrounding the conflict, highlighting the media's influence on public perception.

Data Analysis on Fatalities of ISR-PLS Conflict

- We reviewed academic research by scholars like Rashid Khalidi and Edward Said, exploring themes such as nationalism, identity, and the societal impact of the conflict. Their studies provided nuanced insights into the socio-economic, cultural, and psychological aspects of the conflict, contributing to a deeper understanding of its complexities.
- We examined the role of public discourse and advocacy efforts in shaping perceptions and policies related to the conflict. Books, documentaries, and grassroots movements provided platforms for diverse voices and narratives, influencing public opinion and policy debates.
- I considered the evolving dynamics of the conflict, influenced by geopolitical shifts, internal politics, and external interventions. Scholars and analysts continually monitor and analyze these dynamics to understand their implications for peace-building efforts and prospects for resolution.
- The challenges inherent in analyzing the conflict, including accessing reliable data, navigating political sensitivities, and addressing entrenched narratives and biases. Methodological issues, ethical considerations, and the complexities of conducting research in a conflict-affected context were also explored. The review of the literature provided a multifaceted understanding of the Israel-Palestine conflict, drawing on various perspectives to analyze its historical, political, and humanitarian dimensions. While offering valuable insights, it also highlighted the challenges and limitations inherent in studying such a complex issue.

THIRD CHAPTER – IMPLEMENTATION & PROBLEM FORMULATION

The analysis of fatalities in the Israel-Palestine conflict involves a complex, sensitive, and multifaceted approach. We have addressed the subject with care, recognizing the human suffering involved and the different narratives that exist. While formulating a problem and implementing an analysis, several key aspects were considered, including data collection, the timeframe, categorization of fatalities, and the intended use of the analysis.

Problem Statement

In conducting our analysis of the fatalities from the Israel-Palestine conflict spanning the years 2000 to 2023, our primary objective was to discern the temporal trends in deaths and casualties. We aimed to meticulously examine whether the number of individuals affected:

- Focusing particularly on the Jewish community.
- Exhibited an increasing or decreasing trend over this period.
- Distinguishing between combatants and civilians, and further breaking down the data by demographics such as age, gender, and ethnicity, where possible.
- Emphasizing the need for a nuanced understanding of the conflict's human toll and underscores the importance of data in informing efforts to mitigate the conflict's impact and explore pathways to peace.

System Architecture/Hardware Design of Model

An architecture model for analyzing fatalities from the Israel-Palestine conflict involves setting up a structured framework that can handle data acquisition, processing, analysis, and dissemination. This model would typically consist of several components, designed to ensure data integrity, facilitate insightful analysis, and support informed decision-making. The model is designed to produce actionable insights that can contribute to understanding and, ultimately, to peace-building efforts.

Proposed Algorithm/Software Algorithm

Algorithm for Analysis of Fatalities in the Israel-Palestine Conflict:

i. Data Collection:

- Collecting data from diverse sources including governmental records, international organizations, NGOs, media reports, and academic studies.
- Storing the data in a structured format(.csv) accessible for analysis.

ii. Data Cleaning and Preprocessing:

- Removing the duplicate entries and handle missing or erroneous data.
- Normalizing data formats (e.g., dates, locations) for consistency.
- Categorize data into relevant groups like combatants vs. civilians, age groups, etc.

iii. Data Analysis:

➤ Temporal Analysis:

- Calculating yearly, monthly, or quarterly fatalities to identify temporal trends.
- Using statistical methods to analyze changes in fatality rates over time.

➤ Demographic Analysis:

- Analyze fatalities based on demographic variables such as age, gender, and ethnicity.

Data Analysis on Fatalities of ISR-PLS Conflict

- Comparing the fatality rates between different demographic groups.
- Geospatial Analysis:
 - Utilize GIS techniques to map fatalities and identify spatial patterns.
 - Identify hotspots and areas with high fatality rates.
- Trend Identification:
 - Using machine learning algorithms to detect patterns and predict future trends in fatalities.

iv. Visualization:

- Create visualizations (charts, graphs, maps) to present analysis results.
- Use interactive tools for exploration and dynamic visualization of data.

v. Interpretation and Insights:

- Interpret analysis findings in the context of the Israel-Palestine conflict.
- Identify factors contributing to fluctuations in fatality rates.
- Provide insights into the impact of conflict on different population groups.

vi. Reporting and Dissemination:

- Summarizing analysis findings.
- Disseminate reports to policymakers, humanitarian organizations, researchers, and the public.
- Ensure transparency and accessibility of analysis methodology and results.

Proposed Work

The proposed work for the analysis of fatalities from the Israel-Palestine conflict involves:

i. Data Collection:

- The dataset of fatalities from the Israel-Palestine conflict was acquired directly from the Kaggle website.
- This choice was preferred over collecting data from government entities or NGOs.
- The decision was influenced by the dataset's structured format, which facilitated ease of access and organization.
- Opting for a pre-existing dataset streamlined the process of gathering the required information for our analysis.
- Kaggle's platform offered accessibility and convenience, aligning with our analytical objectives.

ii. Data cleaning & preprocessing:

- Null values were retained in the dataset of fatalities from the Israel-Palestine conflict spanning 2000-2023.
- The decision not to remove null values was influenced by the complexity surrounding the classification of casualties participating in hartals (strikes).
- Confusion arose regarding whether the casualties were involved in hartals or not, making it challenging to accurately classify them.
- Retaining null values allowed for transparency regarding data uncertainties and complexities.
- This approach aimed to ensure the integrity of the analysis by acknowledging and addressing the challenges in classifying certain casualties.

iii. Data Analysis:

- Python modules such as matplotlib were utilized for generating graphs.
- Pandas facilitated the extraction of data frames from the CSV file.

Data Analysis on Fatalities of ISR-PLS Conflict

- Seaborn and various other modules played crucial roles in aiding our analysis.
- These modules provided essential functionalities for data visualization and manipulation.
- Leveraging these Python libraries enhanced the efficiency and effectiveness of our analytical processes.

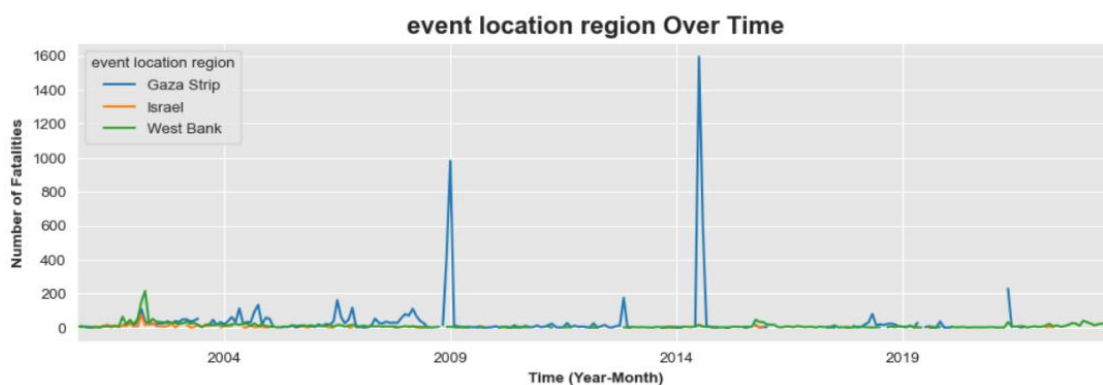
iv. Visualization and Reporting:

- Various types of visualizations, including bar graphs, pie charts, column charts, line graphs, and histograms, were employed during our analysis.
- Insights were inferred regarding trends such as location-based violence over time.
- Gender disparities, including men versus women, were examined through visual representations.

FORTH CHAPTER – RESULTS & DISCUSSIONS

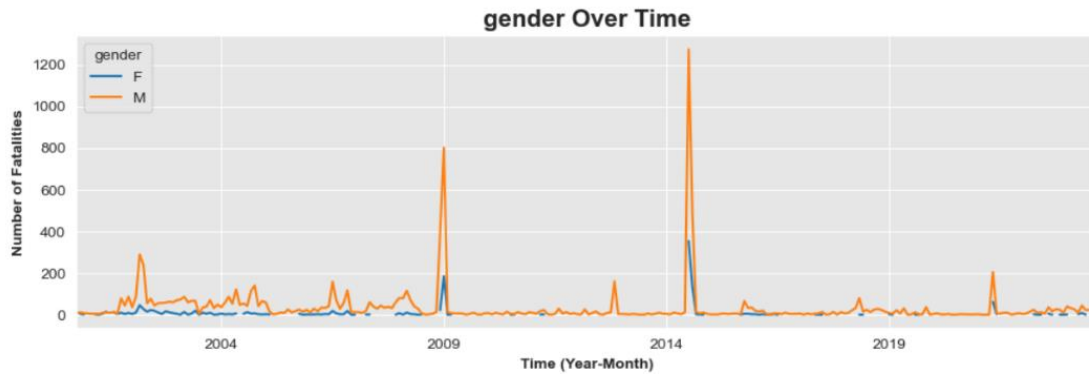
The Israel-Palestine conflict stands as one of the most protracted and contentious geopolitical disputes in modern history, characterized by decades of political strife, territorial disputes, and recurring episodes of violence. Rooted in complex historical, religious, and territorial grievances, the conflict has led to significant humanitarian consequences, including loss of life, displacement, and profound socio-economic disruption. Against this backdrop, the analysis of fatalities in the Israel-Palestine conflict assumes paramount importance, offering insights into the human cost of the conflict and informing evidence-based approaches to peacebuilding, humanitarian assistance, and conflict resolution. By examining patterns of fatalities, demographic profiles of victims, and spatial dynamics of violence, this study aims to deepen our understanding of the conflict's impact on affected populations and contribute to efforts aimed at promoting peace, reconciliation, and justice in the region.

Time Analysis:



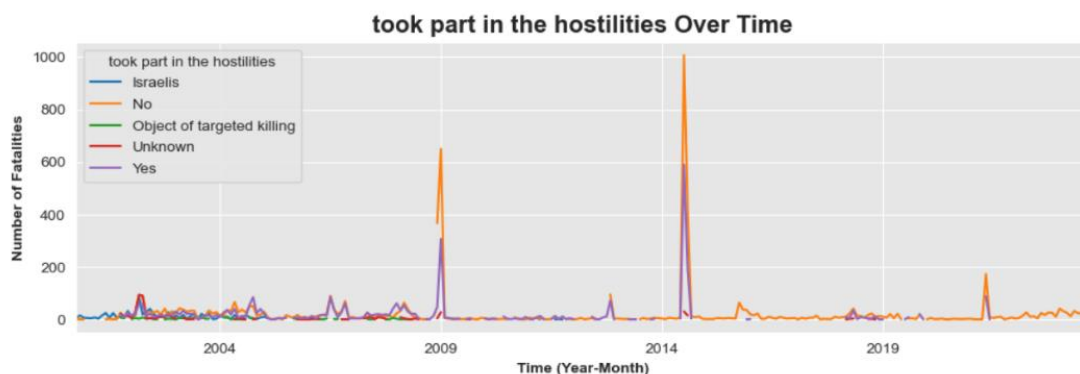
Event Location Region Over Time, shows the number of people who participated in the conflict in the Gaza Strip, West Bank, and an unidentified region over time. It appears participation increased slightly over time in all three regions.

Data Analysis on Fatalities of ISR-PLS Conflict



Gender Over Time, shows the number of males and females who participated in the conflict over time. There appears to be more males than females participating throughout the time.

By examining the temporal evolution of male and female participation throughout the entire duration of the conflict, spanning several decades, notable trends and patterns emerge. It becomes evident that there is a consistent disparity in the number of males and females engaging in conflict-related activities.

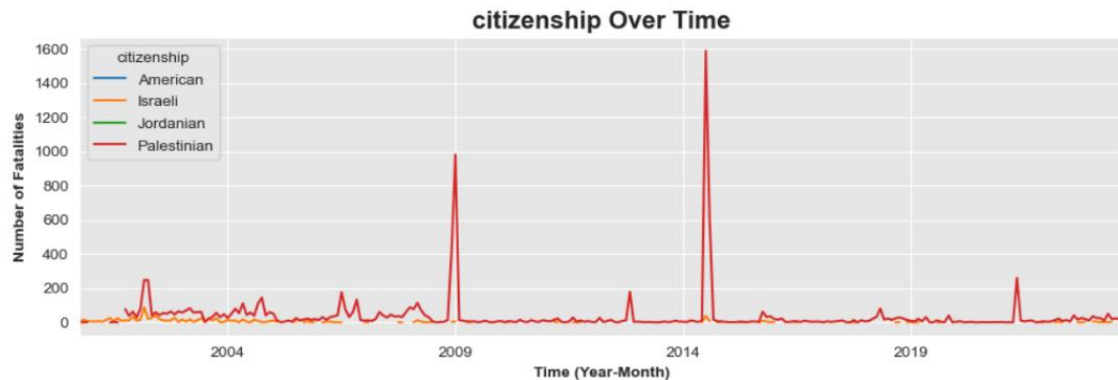


Took Part in Hostilities Over Time, shows the number of Israelis, Palestinians, and unknown participants who were objects of targeted killings and those who were not. It appears the number of Palestinians who were not objects of targeted killings increased the most over time.

By exploring how these dynamics have evolved over time, spanning several years, significant trends and shifts in participation become apparent. One notable

Data Analysis on Fatalities of ISR-PLS Conflict

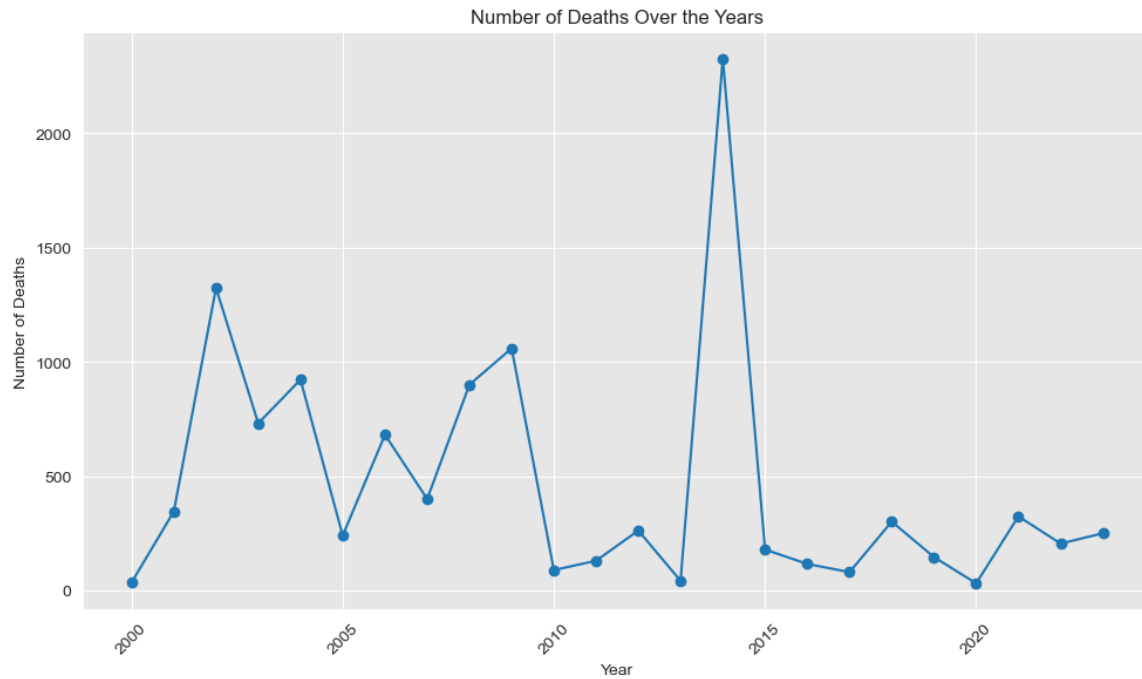
observation is the substantial increase in the number of Palestinians who were not targeted for killings over the observed time.



Citizenship Over Time, shows the number of Palestinians, Israelis, Jordanians, and Americans who participated in the conflict over time. It appears the number of Palestinians participating in the conflict increased the most over time.

The data reveals a pronounced increase in the number of Palestinians engaged in the conflict over the observed period. This upward trend suggests a deepening involvement of Palestinians in the conflict dynamics, potentially influenced by a myriad of socio-political, economic, and historical factors.

Data Analysis on Fatalities of ISR-PLS Conflict



Number of Deaths Over the Years," illustrating the fluctuation in the number of deaths over a span of five years, there is rapid increase in number of deaths in the year 2015.

On the y-axis, representing the number of deaths, the scale ranges from 500 to 1500 in increments of 500. The x-axis denotes the years from 2000 to 2020.

Analysis of the graph indicates that the highest number of deaths, reaching 1500, occurred in the year 2000. Subsequently, there is a gradual decline in the number of deaths, reaching a low of 1000 by the year 2020.

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APPENDIX-I

SOURCE CODE

https://github.com/DeeruReddy/futurense.internship_capstone.project

The dataset utilized for this analysis encompasses data on fatalities, encompassing variables such as event date, age, citizenship, location, gender, and other pertinent details. Spanning from 2000 to 2023, this dataset offers a comprehensive view of fatalities over time, facilitating insights into evolving trends and characteristics.

The examination of fatalities in the Israel and Palestine conflict yields valuable insights into the profound human cost of the ongoing strife. By harnessing data-driven methodologies and interdisciplinary approaches, we can deepen our understanding of the underlying dynamics, pinpoint opportunities for intervention, and contribute to endeavors aimed at fostering peace, justice, and reconciliation within the region

APPENDIX - II

DATASHEETS

Nature of Datasets:

The datasets for the analysis of fatalities in the Israel-Palestine conflict comprise a diverse range of variables and attributes pertaining to incidents of violence, casualties, and fatalities occurring in the region. These datasets are typically sourced from a variety of sources, including government reports, non-governmental organizations (NGOs), human rights organizations, media outlets, academic studies, and international agencies.

Observation and Insights:

Analysis of fatalities over time reveals fluctuations in the intensity of conflict, with periods of heightened violence often corresponding to specific historical events or political developments.

Beyond the immediate loss of life, fatalities in the Israel-Palestine conflict have far-reaching humanitarian consequences, including displacement, injuries, and psychological trauma.

By systematically documenting incidents of violence and identifying perpetrators, legal proceedings and truth-seeking initiatives aimed at addressing past injustices and preventing future atrocities.

Mapping the geographic distribution of fatalities allows for the identification of regions and areas most affected by the conflict.

fatalities in the Israel-Palestine conflict provides valuable insights into the complex dynamics of the conflict and its humanitarian impacts. By leveraging data-driven approaches, stakeholders can develop more effective strategies for conflict prevention, peacebuilding, and the protection of civilian populations.

Beyond the immediate loss of life, fatalities in the Israel-Palestine conflict have far-reaching humanitarian consequences, including displacement, injuries, and psychological trauma.

Examination of the demographic characteristics of individuals killed in the conflict, including age, gender, and citizenship, can reveal disparities in vulnerability and victimization.

During the first eight months of 2023, incidents of settler violence against Palestinians and their property reached their highest daily average since the UN started recording this data in 2006; an average of three incidents a day, compared with two a day in 2022 and one in 2021. That rate further increased after October 7.

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