Project Report on Terrorism Analysis With Insights

1.Introduction:-

Client Details and his expectations:-

Client is a senior Army Officer, Govt. Of India. He is responsible for the Internal Security in the Northern Command. He is also responsible to Counter Terrorism in the entire State of J&K. He is awarded by the President of India, the Kirti Chakra an Indian military decoration awarded for valour, courageous action or self-sacrifice away from the field of battle. It is the peacetime equivalent of the Maha Vir Chakra.

Since the client is responsible for Internal Security in the State of J&K. He needs this tool to be used as a Predictive Analysis tool. He should be able find the trendline of each kind of Attack (Bombing, Assasination etc). Protective vehicles are less in numbers with the Army and are distributed uniformly across the area. Similarly Explosive Detection Dogs (ED Dogs) are only less in the entire country. Your tool will help in finding the concentration of Attack type – Bombing in the area which would help in allocation of the resources. Visualizing the data gives clear patterns about the data and makes it easy for analysis.

2. Related Work :-

1. We should be able to run the Python script from the command line and it should
open a Web Page in the browser with a Descent and Usable Interface.
2. User should have an option on the Web Page to close the opened browser after his
work is complete, it should also close/kill the script running in the background.
3. UI should have a Map tool (Interactive Visualisation) to generate a Scatter Geo
Map with markers for highlighting the lat/long where the incident happened based
on combinations of Month, Day, Attack Type, Region, Country, State and City.

User should be able to select any DAY and MONTH and based on that DAY and MONTH we need to show what incidents happened on that DAY and MONTH (

maybe in any year). We need to create a single visualization of every combination

possible and it should get updated accordingly.

4. Client should be able to filter the 9 Type of Attacks (Bombing, Assassination, Kidnapping etc)

5. Client should be able to filter the Region, Country, State, City.

6. Hovering and Clicking of the mouse should have information.

7. Separate for World and India

8. Option to have animation to Play and Pause for the Years and also should be able to filter data based on year range slider.

9. UI should have a Chart tool (Interactive Visualisation) to show Stacked Line Chart images of the frequency of terrorist incidents each year.

10. Client should be able to Group first by (Country Attacked, Region, Target Nationality, Target Type, Type of Attack, Weapon Type, Terrorist Organisation)

11. Client should be able to search based on the selected Group

12. Client should be able to Filter data based on the Year

13. Client should be able to see the detailing in a visualisation.

14. Follow Rule (overview first, zoom, Compare and filter, details on demand)

15. When a user's mouse hovers over a stripe we should show details

16. Separate for World and India

17. Option to have animation to Play and Pause for the Years and also should be

able to filter data based on year range slider