

Exploratory Data Analysis: Terrorism



By Mohd Mohsin Khan

What it does?

- 01 What is EDA?
- 02 About the dataset
- 03 Perform Exploratory data Analysis on dataset "Global Terrorism"
- 04 We will find out the hot zone of the terrorism



What is EDA?

EXPLORATORY DATA ANALYSIS (EDA) IS USED BY DATA SCIENTISTS TO ANALYZE AND INVESTIGATE DATA SETS AND SUMMARIZE THEIR MAIN CHARACTERISTICS, OFTEN EMPLOYING DATA VISUALIZATION METHODS.













- Why is exploratory data analysis important in data science?
- Exploratory data analysis tools
- Types of exploratory data analysis
- Exploratory Data Analysis Tools

About the Dataset



For the Global Terrorism dataset,
check this link and download it.
<https://bit.ly/2TK5Xn5>

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----------|------|--------|----------------|------------|----------------------------|------------|--|--------------|--|----------------------|---|-------------|--|-----------|---|----------|---|-----------|-----------------------------|-------|---------|-----------|-------------|--|------------|--|----------------------|--|---|--|-----------------------------|--|
| Paste | | Copy | | Format Painter | | B <i>I</i> <u>U</u> | |  A | |  A | |    | |  Merge & Center | |  % | |  .00  .00 | | Conditional Format as Table | | Neutral | | Calculation | | Check Cell | | Insert Delete Format | |  Clear | | Sort & Find & Filter Select | |
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| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | | | | | | | | | | |
| 1 | eventid | year | imonth | iday | approxdate | extended | resolution | country | country_text | region | region_text | provstate | city | latitude | longitude | specificity | vicinity | location | summary | crit1 | crit2 | crit3 | doubtterr | a | | | | | | | | | |
| 2 | 1.97E+11 | 1970 | 7 | 2 | | 0 | | 58 | Dominican | 2 | Central America & Ca | Santo Don | 18.45679 | -69.9512 | 1 | 0 | | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 3 | 1.97E+11 | 1970 | 0 | 0 | | 0 | | 130 | Mexico | 1 | North Ame | Federal | Mexico cit | 19.37189 | -99.0866 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 4 | 1.97E+11 | 1970 | 1 | 0 | | 0 | | 160 | Philippines | 5 | Southeast | Tarlac | Unknown | 15.4786 | 120.5997 | 4 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 5 | 1.97E+11 | 1970 | 1 | 0 | | 0 | | 78 | Greece | 8 | Western E | Attica | Athens | 37.99749 | 23.76273 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 6 | 1.97E+11 | 1970 | 1 | 0 | | 0 | | 101 | Japan | 4 | East Asia | Fukouka | Fukouka | 33.58041 | 130.3964 | 1 | 0 | | | 1 | 1 | 1 | -9 | | | | | | | | | | |
| 7 | 1.97E+11 | 1970 | 1 | 1 | | 0 | | 217 | United Sta | 1 | North Ame | Illinois | Cairo | 37.00511 | -89.1763 | 1 | 0 | 1/1/1970: | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 8 | 1.97E+11 | 1970 | 1 | 2 | | 0 | | 218 | Uruguay | 3 | South Ame | Montevide | Montevide | -34.8912 | -56.1872 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 9 | 1.97E+11 | 1970 | 1 | 2 | | 0 | | 217 | United Sta | 1 | North Ame | California | Oakland | 37.79193 | -122.226 | 1 | 0 | Edes Subst | 1/2/1970: | 1 | 1 | 1 | 1 | | | | | | | | | | |
| 10 | 1.97E+11 | 1970 | 1 | 2 | | 0 | | 217 | United Sta | 1 | North Ame | Wisconsin | Madison | 43.07659 | -89.4125 | 1 | 0 | | 1/2/1970: | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 11 | 1.97E+11 | 1970 | 1 | 3 | | 0 | | 217 | United Sta | 1 | North Ame | Wisconsin | Madison | 43.07295 | -89.3867 | 1 | 0 | | 1/3/1970: | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 12 | 1.97E+11 | 1970 | 1 | 1 | | 0 | | 217 | United Sta | 1 | North Ame | Wisconsin | Baraboo | 43.4685 | -89.7443 | 1 | 0 | | | 1 | 1 | 0 | 1 | | | | | | | | | | |
| 13 | 1.97E+11 | 1970 | 1 | 6 | | 0 | | 217 | United Sta | 1 | North Ame | Colorado | Denver | 39.75897 | -104.876 | 1 | 0 | | 1/6/1970: | 1 | 1 | 1 | 1 | | | | | | | | | | |
| 14 | 1.97E+11 | 1970 | 1 | 8 | | 0 | | 98 | Italy | 8 | Western E | Lazio | Rome | 41.89096 | 12.49007 | 1 | 0 | | | 1 | 1 | 1 | -9 | | | | | | | | | | |
| 15 | 1.97E+11 | 1970 | 1 | 9 | | 0 | | 217 | United Sta | 1 | North Ame | Michigan | Detroit | 42.33169 | -83.0479 | 1 | 0 | | 1/9/1970: | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 16 | 1.97E+11 | 1970 | 1 | 9 | | 0 | | 217 | United Sta | 1 | North Ame | Puerto Ric | Rio Piedra | 18.38693 | -66.0611 | 1 | 0 | Caparra Sh | 1/9/1970: | 1 | 1 | 1 | 1 | | | | | | | | | | |
| 17 | 1.97E+11 | 1970 | 1 | 10 | | 0 | | 499 | East Germ | 9 | Eastern Eu | Berlin | Berlin | 52.50153 | 13.40185 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 18 | 1.97E+11 | 1970 | 1 | 11 | | 0 | | 65 | Ethiopia | 11 | Sub-Sahara | Unknown | Unknown | | | 5 | 0 | | | 1 | 1 | 0 | 1 | | | | | | | | | | |
| 19 | 1.97E+11 | 1970 | 1 | 12 | | 0 | | 217 | United Sta | 1 | North Ame | New York | New York | 40.69713 | -73.9314 | 1 | 0 | Brooklyn | 1/12/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 20 | 1.97E+11 | 1970 | 1 | 12 | | 0 | | 217 | United Sta | 1 | North Ame | Puerto Ric | Rio Grande | 18.38 | -65.8309 | 1 | 0 | | 1/12/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 21 | 1.97E+11 | 1970 | 1 | 13 | | 0 | | 217 | United Sta | 1 | North Ame | Washingto | Seattle | 47.61079 | -122.331 | 1 | 0 | | 1/13/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 22 | 1.97E+11 | 1970 | 1 | 14 | | 0 | | 217 | United Sta | 1 | North Ame | Illinois | Champaig | 40.11675 | -88.2393 | 1 | 0 | Champaig | 1/14/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 23 | 1.97E+11 | 1970 | 1 | 15 | | 0 | | 218 | Uruguay | 3 | South Ame | Montevide | Montevide | -34.8912 | -56.1872 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 24 | 1.97E+11 | 1970 | 1 | 19 | | 0 | | 217 | United Sta | 1 | North Ame | Washingto | Seattle | 47.61079 | -122.331 | 1 | 0 | Seattle Un | 1/17/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 25 | 1.97E+11 | 1970 | 1 | 19 | | 0 | | 217 | United Sta | 1 | North Ame | Washingto | Seattle | 47.61079 | -122.331 | 1 | 0 | | 1/17/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 26 | 1.97E+11 | 1970 | 1 | 19 | January 19 | 0 | | 217 | United Sta | 1 | North Ame | New Jerse | Jersey City | 40.71789 | -74.0675 | 1 | 0 | Front of bu | 1/19/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 27 | 1.97E+11 | 1970 | 1 | 20 | | 0 | | 83 | Guatemala | 2 | Central An | Guatemala | Guatemala | 14.62287 | -90.5291 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 28 | 1.97E+11 | 1970 | 1 | 21 | | 0 | | 160 | Philippines | 5 | Southeast | Metropolit | Quezon Ci | 14.67428 | 121.0575 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 29 | 1.97E+11 | 1970 | 1 | 22 | | 0 | | 222 | Venezuela | 3 | South Ame | Caracas | Caracas | 10.48283 | -66.9621 | 1 | 0 | | | 1 | 1 | 1 | 0 | | | | | | | | | | |
| 30 | 1.97E+11 | 1970 | 1 | 22 | | 0 | | 217 | United Sta | 1 | North Ame | Nebraska | South Siou | 42.47031 | -96.4139 | 1 | 0 | | 1/22/1970 | 1 | 1 | 1 | 0 | | | | | | | | | | |

Implementation of The code:

Python



Thank you!!!

Send it to us! We hope you learned something new.

