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Global Terrorrism Analysis Sudarshan R , Pranav Yogi Lodha , ...

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Global Terrorrism Analysis Sudarshan R , Pranav Yogi Lodha , Gaurav Pandey Department of Computer Science and Engineering P...

...ple everywhere. The most prevalent aftermath of a terror attack is uncertainty with regard to things such as how they went about planning a major attack undetected, was the terror act an isolated instance or the first of a series, and finally, who were the perpetrators [1]. The aim of our project is to reduce this feeling of uncertainty as far as possible using and data analytics.Given som...

...p different defence agencies to be well prepared and equipped for any future attacks. III. Background A. About the dataset The Global Terrorism Database (GTD) is an open-source database including information on terrorist attacks around the world from 1970 through 2017. The GTD includes systematic data on domestic as well as international terrorist incidents that have occurred during this time period and now includes more than 180,000 attacks. The database is maintained by researchers at the National Consortium for the Study of Terrorism and Responses to Terrorism (START), headquartered at the University of Maryland-GTD. For each event a wide range of information is available,including the date,location of the incident, weapons used,nature of the target,casualties . But the disadvantage of this dataset is ,it is not complete,accurate,and has noisy data. As our first step we cleaned this dataset and made it more interpretable and believable . IV. Literature Review Data Visualization as a Preprocessing Step in Designing of Data Mining Tools Visualizing Time Series Pattern of Rainfall Data(2018)[2].This is about the Visualization of a time series data and how important step it is in analysing the data .Visuali...

...lation analysis and then discusses ML algorithms like K-means clustering and validates the model based on a few criteria . Prediction of Satellite Time Series Data Based on Long Short Term Memory Autoregressive Integrated Moving Average Model (LSTM-ARIMA) (2019)[4].In this the author explains time series data analysi...

...orist events and networks.The entire paper gives the roadmap for our project starting from collection of data to analysis. An Outlier Detection Algorithm Based on Cross-Correlation Analysis for Time Series Dataset(2018)[7].This emphasizes the outlier detection significance . They introduce an Outlier Detection method based on Cross-correlation Analysis (ODCA). It consists of three key parts. They are data preprocessing, outlier rank and outlier analysis. Finally, a multilevel Otsus method is adopted to help select the rank thresholds adaptively and output the abnormal samples at different levels. Given all these ,we understand the past work done on analysing global terrorism and the technique/method used to solve th...

... always a good practice to perform descriptive analytics before moving to predictive analytics model building. Descriptive statistics will help us to understand the variability in the model and visualization of the data through, say, a box plot which will show if there are outliers in the data. Another visualization technique, the scatter plot, may also reveal if there is any obvious relationship between the two variables under consideration. Correlation analysis is very important as it shows any associative relationships between the attribut...

...tegorical we apply chi-sq test . And when the datatype is interval/ratio we apply Pearson's correlation and so on.And high correlation coefficient does not mean they are highly correlated ,it could even be spurious!. Skewness test using Kurtosis and Pearsons moment coefficient is also done as we get to understand how the data is distributed . And if skewed how is it advantageous to us? 4)Data Transformation In this preprocessing step, the data are transformed or consolidated so that the resulting mining process may be more efficient, and the patterns found may be easier to understand.This is just to increase the data quality and to reduce the effect of the measured unit of the attribute. C. Model Buildin...

...statement.For example, by using simple linear regression we can predict the future value of an dependent variable by using independent variables and we can use the OLS method to get the regression parameters required . After the model is developed we will do validation tests like R2 ,t-statistic to find the significance of the explanatory variable on the outcome variable,F-statistic to get the overall significance of the model. Time series analysis on the dataset using AR ,MA is also a kind of regression and where in AR the future value is predict...

... rough view about our hold on the dataset and the problem we are trying to solve . VII. References [1] E. Picardo. (2016). Don't Hide From The Reality Of How Terrorism Affects The Economy. [Online] Investopedia. [2] Manoj S. Chaudhari , Nitin K.Choudhari.Data Visualization as a Preprocessing Step in Designing...

...ver Terrorism Network in India..2020 International Conference for Emerging Technology (INCET) [4] Yuwei Chen ; Kaizhi Wang.Prediction of Satellite Time Series Data Based on Long Short Term Memory Autoregressive Integrated Moving Average Model (LSTM-ARIMA) .2019 IEEE 4th International Conference on Signal and Image Processing (ICSIP) [5] Disha Talreja , Jeevan Nagaraj , N J Varsha , Kavi Mahesh. Terrorism Analytics: Learning to Predict the Perpetrator.2017 International Conference on Advances in Computing, Communications and Informatics (ICACCI) [6] Lavanya Venkatagiri Hegde ,Nerella Sreelakshmi, Kavi Mahesh.Visual Analytics of Terrorism Data.2016 IEEE International Conference on Cloud

Computing in Emerging Markets (CCEM) [7] Hui Lu , Yaxian Liu ,Zongming Fei , Chongchong Guan.An Outlier Detection Algorithm Based on Cross-Correlation Analysis for Time Series Dataset

Relevant Sources

[1] https://www.investopedia.com/articles/investing/030215/how-terrorism-affects-markets-and-economy.asp (32 Words, 1.3%)
[2] https://stellargraph.readthedocs.io/en/v1.0.0rc1/demos/community_detection/attacks_clustering_ana... (71 Words, 3%)
[3] https://vietle.info/project/terrorism-r (71 Words, 3%)
[4] http://campus.usal.es/~vito/RECURSOS/ficharecurso.php?codrecur=1204 (53 Words, 2.2%)
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