Project Proposal

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1 Abstract

In recent years, the world, and Europe in particular, has seen the number of terrorist attacks increase dramatically. As a result, security measures have been specifically put in place to counter certain types of attacks. A different approach that needs serious consideration is the analysis of these attacks to better understand them and to, ideally, avoid them. Graph theory provides well-defined tools to carry out this study.

2 Description

The content of more than 170,000 worldwide terrorist attacks, between 1970 and 2016, provided by the START Consortium will be used.

https://www.kaggle.com/START-UMD/gtd

2.1 Data acquisition

We will focus in understanding how the data is represented, what are the main variables and how each of these are defined.

2.2 Data exploration

The number of attacks per year for a given country or the top five weapons used to commit an attack is the kind of analysis one can develop in this section.

2.3 Data exploitation

In order to predict or prevent an attack, it is important to reveal the hidden links that can exist with other attacks. One can represent the attacks of a perpetrator group as a graph for example.

2.4 Conclusion

Finally, we will discuss our results and summarize our findings.