**Capstone Project-1 Proposal**

Predicting terror events with using multiple data sets;

**Background**

The most important problem of the security, terrorist attacks. The threat of terrorism is more dangerous than the threat of conventional war, because it is much more unpredictable, sudden and more effective on society.

Although there have been made many valuable studies, this field needs to be contributed as terrorist-attacks are becoming more intense, complex and are increasing in their level of sophistication.

One of the useful dataset in this field is The Global Terrorism Database (GTD). GTD records terror attacks around the world from 1970 through 2015, it includes systematic data on domestic and international terrorist incidents during this time period. This data set will be used to reach below goals.

**Goals**

Main purpose is to make a contribution to estimation phase of a security crisis.

Trying to answer questions such as:

* Is there any relation between the terrorist events and economic metrics?
* Can we predict the likelihood of an event in a given time?
* Can we predict where terrorists will strike next?

**Data Source**

I will use the [Global Terrorism Database](https://www.start.umd.edu/gtd/) (GTD), and below data sets of [World Bank](http://databank.worldbank.org/) @Data.World.

1. GDP (current US$)
2. Population, total

Different date sets might be added during the project

**Approach**

* Understand the variables in the data
* Clean data to exclude redundant entries
* Explore and construct model
* Test

**Deliverables**

* Report/Paper
* Jupyter Notebooks with intermediate data analysis