Global Terrorism Problem — Data Science Project

# Project Evaluation

👤 Global Terrorism Problem    🕐 19 May 2019    💬 Leave a comment

**– What were the difficulties you encountered during the project?**

At first, we have had difficult time to find an appropriate dataset. We had to change our dataset in the beginning of the semester because it did not match the requirements and we had to catch up with other groups since we have started to examine another dataset. Also, since we do not have prior

experience on machine learning before, we had to learn the ML techniques to apply them.

**– If you were given sufficient amount of resources, what additional datasets would you utilize?**

Since we are analyzing the Global Terrorism Database, we were thinking that maybe we can merge Tourism dataset and Global Terrorism dataset to understand the effects of terrorism on tourism but we thought that this might take long time.

**– Compare the machine learning algorithms you used, in terms of performance and applicability to your dataset.**

Decision Trees are very flexible and easy to apply. They work well with classification problems and regression problems. Trees will handle both problems. One of the main things about Decision Trees is they only require a table of data and they will build a classifier directly from that data without

needing any up front design work to take place. Naive Bayes requires you build a classification by hand. Picking which features matter is up to you. Naive bayes does quite well when the training data doesn't contain all possibilities so it can be very good with low amounts of data. Decision trees work better with lots of data compared to Naive Bayes. Decision trees can guide us to find if there is a statistical relationship between a given input to the output and how strong that relationship is. If we are trying to decide between using decision trees vs naive bayes to solve a problem,  it is better to test each of them. Which ever performs best will more likely perform better in the field.

**– What improvements could have been done in your project?**

We could have used interactive maps that we have produced using Rmarkdown but wordpress forced us to buy premium in order to use plugins so that we couldn't post them. Also, if we would have time we

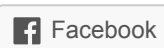might improve looks of our website but we believe it is more about the
content than looks😊.

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