

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38059
Project Title	
Predicting Terrorist Attacks in Afghanistan Using Generalized Multivariate Regression and Time Series Analysis	
Abstract (Cools	
The objective of this study is to help prevent terrorist attacks in one of the prov discovering the factors that significantly affect the rate at which terrorist attacks that data to predict terrorist attacks. Methods/Materials	nces of Afghanistan by occur, and then by using
Laptop computer with RStudio installed. Used data from the United Nations and to create a generalized linear model, ran a time series analysis which generated terrorist attacks in Afghanistan.	o the Afghan government predictions of future
Results From the generalized linear model I created, I determined that oppum production had by far the strongest correlation to terrorist attacks in Afghanistan out of the means 40 covertates I analyzed. I was also able to predict through a time series analysis, that there will be 39, 36, and 41 terrorist attacks respectively in the next three years in the capital of Afghanistan. Conclusions/Discussion One way to reduce the number of terrorist attacks in Afghanistan could be to limit the production of opium. Resources, both preventative and retalized can be oblecated to regions based on the number of attacks predicted.	
Summary Statement I created a prediction of terrorist attacks in Afghanistan using generalized multi series analysis	variate regression and time
Help Received	
I learned the statistical procedures necessary for this project through independent explanations from Mihnea Andrei, a graduate student at the UCSB Department from the U.N. and the Afghan Govt.	nt study as well as of Statistics. I used data