**What is the problem you want to solve?**

One of the most common interactions between police and the public are traffic stops. With over 50,000 stops per day in the United States, there is a lot of data to track, and analyze, to have a better idea of who is being stopped, why they were stopped and what the outcome was. This information is helpful to know to understand if resources are being used wisely, and to draw attention to conscious or unconscious biases in police behavior.

I will look at Colorado traffic stop data.

**Who is your client and why do they care about this problem? In other words, what will your client DO or DECIDE based on your analysis that they wouldn’t have otherwise?**

There are two groups who may be clients for this type of analysis, government watchdog groups, and police departments. Government watchdog groups would use the analysis to raise awareness for issues found. Police Departments may invest in the analysis to ensure resources are being used wisely and to proactively combat any biases through trainings or other necessary actions.

**What data are you going to use for this? How will you acquire this data?**

I will use the dataset from the Stanford Open Policing Project: <https://openpolicing.stanford.edu/data/>. There is a possibility I will compare this to census data at a later point.

**In brief, outline your approach to solving this problem (knowing that this might change later).**

I will use a clustering algorithm to look at the dataset as a whole. I will also do many smaller comparisons between features.

**What are your deliverables? Typically, this would include code, along with a paper and/or a slide deck.**

I will have code for implementing the models, a paper describing the steps I took and in-depth analysis of the results, and I will also include a slide deck for presenting the results in a summarized view.