# Project Proposal

Machine Learning for Public Policy

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#### Project goals

Problem definition

**Importance** 

**Impact** 

Who cares

Who will take action based on your work

What are the policy goals you care about?

#### Data

## What you have ## What you need

### **Analysis**

We are looking to identify a risk ranking score that determines the probability that police officers will engage in adverse event/misconduct behavior<sup>1</sup>. As explained before, our predictors will be officer attributes and its activities from a time-period that will predict a risk ranking score which could be used, at different thresholds, to obtain a dummy output variable 0,1 for a top-N list, that indicate if a officer is likely to misbehave in a period of time.

For this endeavor we will

### What actions will this enable or improve?

#### **Evaluation**

## How would you evaluate the models, what metrics?

<sup>&</sup>lt;sup>1</sup>We refere to adverse events or misconduct behavior for the following criteria: (1) officer's improper use of force, (2) citizen or officer injury or accident and (3) any sustained serious complaint from a citizen or collegue.

## Policy recommendations:

## What kind of recommendations do you hope to give to policy makers based on this analysis/project. ## How will you validate whether what you are proposing will have the desired impact?