MSDS Data Practicum I – Project Proposal

# Title of the project

Identifying the Markers for Sociopolitical Unrest in the US

# High level description of the project: what question or problem are you addressing?

Are there consistent, broad-based “markers” which can be used to indicate an increased risk of sociopolitical unrest in the United States? I am preliminarily thinking of these markers as economic factors, educational trends, social chatter, public health concerns, political rhetoric, law enforcement activity, and cultural occurrences (e.g., movies, plays, television trends).

# What type of data science task is it? (some example answers but not limited to)

This effort will involve classification, predictive analysis, and data visualization.

# Data: Brief description of data. How big do you expect the data will be? Is amount of your data too big or too small? If you're web-scraping or collecting data, how long do you expect to collect the data?

Although I do not yet know how expansive the available datasets will be, I expect to collect open-source data from local, state, and federal government entities as well as NGOs (non-governmental organizations). Ideally, I would like 80 to 100 years’ worth of data; however, I do not expect data to be available over the full timeframe for each of the desired markers.

# How will you analyze the data? What machine learning methods do you plan to use, and/or what business intelligence aspect do you plan on incorporating?

This is to be determined.

# Describe any anticipated difficulties and problems. Discuss how you may overcome the problems.

Finding valid data sources over the desired timeframe for each of the anticipated markers will likely be my biggest issue.

# Suggest a timeline for the project. This should be a weekly breakdown of what you plan on doing each week.

This is to be determined.

# Create GitHub repository for your Practicum project. Add this proposal, begin a ReadMe document, and begin adding your data to your repository. Add a link to your GitHub repository to this document.

Repository – https://github.com/ZeakGhox/MSDS692\_Practicum\_I