You must incorporate at least **two** of the following components:

1. A web application or dashboard that allows the user to interact with your dataset in real time according to the standards of your project. At least 5 options should be provided to users to customize views, bring up custom reports, or some other interactivity. This web application must be functional and available on the web.
2. A fully engineered machine learning solution that includes k-fold CV, holdout CV, and appropriate tuning. Tuning must include evaluation of at least three reasonable algorithms for modeling, in addition to other standard tuning strategies.

I wanted to use the GSS data to look at something associated with the military and found that the most interesting available data spread across multiple years was the level of trust individuals reported to have in multiple institutions within our country. The relevant question was 181 in the GSS\_Codebook (page 397).

181. I am going to name some institutions in this country. As far as the people running these institutions are concerned, would you say you have a great deal of confidence, only some confidence, or hardly any confidence at all in them?

I choose to remove the TV variable but kept all others.

CONFINAN = banks and financial institutions

CONBUS = major companies

CONCLERG = organized religion

CONEDUC = education

CONFED = executive branch of the federal government

CONLABOR = organized labor

CONPRESS = press

CONMEDIC = medicine

~~CONTV = TV~~

CONJUDGE = in U.S. Supreme Court

CONSCI = confidence in scientific community

CONLEGIS = confidence in congress

CONARMY = confidence in the military

**Response:**

A great deal – 1 (but I recoded the values to make this the higher number of 3 to assist with plotting))

Only some - 2

Hardly any – 3 (but I recoded the values to make this the lower number of 1 to assist with plotting)

Not applicable