**ITSS 4351.501 - Group 2 - Milestone 1**

Afif Mazhar, Mable Fan, Jaquelin Rojas, Elaine Zhang, Ziming (Caleb) Zhao

**Border Crossing Entry Dataset:** <https://www.kaggle.com/akhilv11/border-crossing-entry-data>

**Dataset Information: [Afif]**

The data that we are using is extracted from the Bureau of Transportation Statistics (BTS) Border Cross Data which is a summary statistics of the inbound crossings that occur at the US-Mexican border and the US-Canada border at the port level from 1996 to 2019. Attributes of the dataset include port name, state, port code, border, date, mode of transportation, value, and location. The main purpose of the statistics is to collect the number of vehicles, i.e. bus, truck, passenger vehicle, that passed the border at a port entry. This is a cleaned dataset with nearly 347,000 rows of data with 8 attributes that detail each port entry.

**User Stories: [Caleb, Jaqui, Elaine, Mable]**

**As the US Government...**

We are interested in learning about the migration patterns coming into the US. **We want** to analyze how many people are crossing in on a regular basis, what are the peak periods, and which are the most common forms of transportation for incoming people. **So that** when there is a heavy season, we are better prepared with enough Homeland Security officials at the border cities. Furthermore, we would like to know which cities would need more resources to maintain facilities based on their incoming traffic per year. **And the value to** analyzing the data is that the border crossing will be more efficient and safe. Also, border cities immigration offices with more incoming traffic can request a higher budget.

**As a politician...**

**I want** to understand how the rate of border crossings affect my local region. Of the many presidencies completed throughout the years, new laws have been introduced to establish immigration regulation. I would benefit in analyzing the data trends in correlation to historical events **so that** I can deliberate on new proposals I believe would benefit my region and America. This would add **value to** our constantly improving government ordinance on immigration.

**As travelers...**

**We are interested** in finding out the most popular ports for going to the United States. For road-trippers like us, especially during the high volume travelling season, we don’t want to waste any of our valuable time in traffic. **Therefore,** with the dataset that is provided, we will be able to analyze the volume of the travellers at each port of entering the border of the United States, as well as save our time by making a wise decision on which port we will be entering from to avoid the traffic. In addition, research has shown that buses and trucks with containers usually take more time to pass the border due to the inspections that it has to go through. The dataset provides **additional valuable information** for us to discover the fast route to pass the border and plan ahead of our trip, so we can visit more places and shoot more beautiful photos.

**Questions: [All]**

* Where are the most border crossings happening?
* How frequent are border crossings daily/monthly/yearly?
* Mode of transportation?
* Correlation to immigration laws?
  + DACA
  + Trump Executive Law
  + Arizona SB 1070 - 2011
  + 2015 Immigration Influx
* Correlation between controlling political parties and immigration?