Immigration Tracking Over Time in the United States		
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Organization	N/A	
Organization Description	N/A	
Project Type	Data Science	
Project Description	We would like to create a visualization that shows the origin countries of immigrants coming to the United States over time. We'd also like to use these datasets to create a prediction model. This prediction model might help show where immigrant populations are likely to come from in the future based on past trends. Our intent is that our visualization will allow for an easy to understand history of immigration to the United States. The prediction model that we create could be used by lawmakers, historians, and analysts as a supplemental tool.	
Data Sets & Sources	We can use datasets from the US Census Bureau and from the Department of Homeland Security (DHS) to compile necessary immigration data. For census data (https://www.census.gov/data/datasets.html), use the filter "Population Estimates" under the "Population" section on the left of the page. Many datasets over the years are available for the kind of data we want to use. For DHS data (https://www.dhs.gov/immigration-statistics/yearbook),	
	choose a year from 1996 to 2020 using the sidebar on the left. Each year contains a set of immigration tables along with a description of each table.	
Suggested Steps	 Utilize the datasets made available by the US Census Bureau and by the Department of Homeland Security. Aggregate all historical datasets and refactor them for use in one or more pandas dataframes. 	

	historical immigrant popul over time. 4. Once completed, the historical immigrant popul	reate an animated visualization of ulation movement to the United States orical data can then be used to train a odel, most likely similar to the one urce below):	
	The First Great Migration: 1910-1940	The Second Great Migration: 1940-1970	
	The change in share of Blacks in cities is based on the percentage por percent of population that was Black in the later first period compares exemple, 16.3 percent of the population in Clay, N. was Black in 14th 1910, which represented a 15.0 percentage point change in the share. It was the largest change in share during the Frst Creat Migration. By Second Great Migration, Newark, N. Intel realized the largest con- sistence Great Migration, Newark, N. Intel realized the largest shares, with the Black proportion of the oily noing from 10.5 in 1940 to	2 but was part 2.3 in Change in 2.5 to 4.8 1,000.000 or more 1,000.000 or mo	
	Source: http://snap.stanford.edu/class/cs224w-2015/projects_2015/Analyzing_and_ predicting_Internal_Migration_Patterns_in_the_USA.pdf		
Questions to be answered in Analysis	Where have immigrants coming to the United States come from historically? What are current immigration patterns by group in the United States? What are likely trends in immigration looking into the future? Do current immigration trends differ drastically from past immigration trends?		
Ideal Output + Final Deliverable	 We hope to deliver: An immigrant group prediction model using census and DHS data that can freely be used for any future project. An animated visualization of the past and predicted immigrant origins in the United states. Our implementation of a population immigration model that is reasonably accurate. 		
Additional	N/A		

List of Limitations

- 1. It may be difficult to compile the extensive amount of data from the US Census and the US DHS.
- 2. We may have to look deeper into whether any data is being shared between the census and DHS in order to avoid duplicate data. This could end up being a difficult and tedious manual step.
- 3. A great deal of data cleaning will likely need to be done before working with the previously mentioned datasets.
- 4. DHS data spans from 1996 to 2020 while Census data spans from 1970-2021. Less data in earlier and very recent years (1970s-1980s and 2021-22) could potentially be an issue when creating an accurate model.