

Quick Turkeys - Lucas Yuan, Jiren Li, Renzhi Hao

CS 396 Data Seminar

Checkpoint 5: Natural Language Processing

For our project, we are investigating how neighborhood demographics play a part in what types of force police officers use, and in order to accomplish this we were looking at the Tactical Response Report (TRR) data. For example, is an officer more likely to use a weapon against people of different races? We were also looking into what types of officers commit TRRs the most. We want to look into this in order to look further into how police officers use violence, and what situations and locations they are more or less likely to use violence in.

What is the average sentiment of the subject of allegations against police officers broken down by race.

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AVERAGE NATIVE AMERICAN/ALASKAN NATIVE SENTIMENT: -4.47
AVERAGE BLACK SENTIMENT: -4.23
AVERAGE HISPANIC SENTIMENT: -3.98
AVERAGE ASIAN/PACIFIC ISLANDER SENTIMENT: -3.84
AVERAGE WHITE SENTIMENT: -3.63
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We had a lot of trouble organizing the OCR from the TRR Narrative data so we decided to look into the sentiment of the allegation data to see if there was a disparity between different races. The sentiment of all of them is quite negative, which is to be expected when looking at allegation data, but there is a notable disparity between the sentiment of black individuals and the others. However, one can see that native american/alaskan native sentiment is even more negative than that of black, but this may just be due to low sample size.