Capstone: NYC Daily Inmates In Custody

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**Introduction:**

Our goal was to provide data and visuals in a way that would be meaningful to a hypothetical Board of Corrections. We created dashboards for a general overview which included: General, Race, Age, & Gender.

**Data Sources:**

NYC Open Data was where we obtained our dataset. The data was provided by the NYC Board of Correction.

<https://data.cityofnewyork.us/Public-Safety/Daily-Inmates-In-Custody/7479-ugqb>

**Uploaded to Github:**

<https://raw.githubusercontent.com/DMDataAnalytics/Inmates/master/Daily_Inmates_In_Custody%20Raw.csv>

Original: 4132 rows × 13 columns

After Data Cleaning: 3756 rows × 11 columns

**Methodologies:**

We began by renaming columns to make them more easily understood. We then started data cleaning by dropping columns with no values to optimize performance. Finally, we dropped all remaining Null values.

Finding sample code online was needed to show us how to export from Colab to our local machines:

**#Code to Export Cleaned Data on to Local Machine for Tableau**

from google.colab import files

df4.to\_csv(‘CleanedInmateDataset.csv’)

files.download(‘CleanedInmateDataset.csv’)

For visualizations we went with using tableau to go along with the dashboards we used in our story.

In Tableau we had to create a calculated field for the “Top Charge” and called it “Penal Code Clean”. This was due to the issue we encountered where the code 110-125.25 and 125.25 are the same but when trying to aggregate the data they show up as seperate charges.

**CODE:** RIGHT([‘Top Charge’], 6)

**Findings:**

1. Majority of Inmate Population is Not Gang Affiliated
2. Majority of Inmates are in Maximum and Medium Security (Custody Levels)
3. In this data set, women didn’t start getting admitted until 3 years later (2015)
4. Majority of inmates are under mental observation across all races
5. Ages 23-34 is the top 10 for inmates under mental observation
   1. Ages 63-79 seems to have the lowest number of inmates under mental observation (single digits):Majority of inmates are under “Detainee” status code. The lowest being under “Detainee- Technical Parole Violator”.

**Limitations:**

Inmate Status Code Definitions require a narrative to provide additional context.