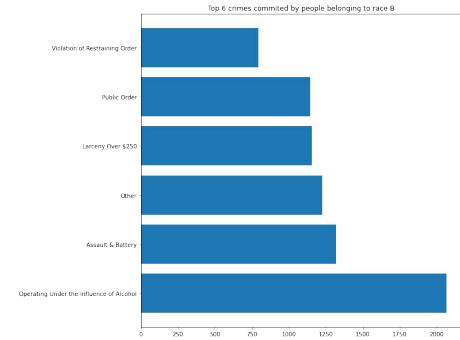
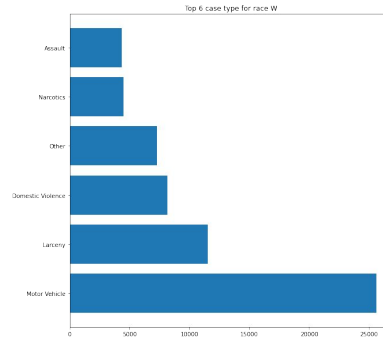
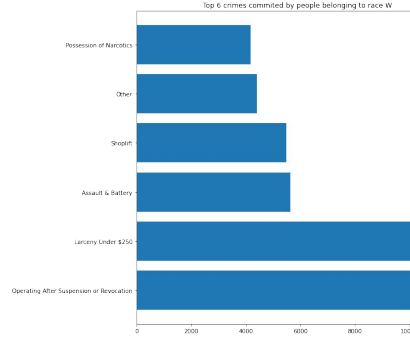


CPCS Findings

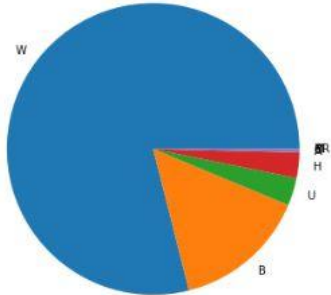
Kevin, Vedika, Sam, and PJ

A dark blue diagonal gradient bar that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

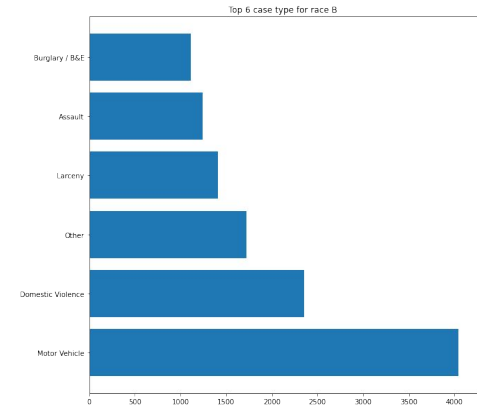
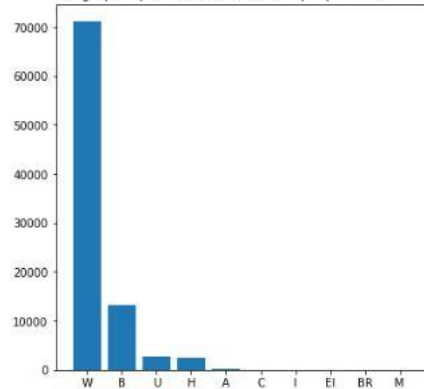
Generalized graphing and visualization



Pie chart representation of Race of people under study



Bar graph representation of Race of people under study



Questions that we asked

- Is there a correlation between race and prosecution frequency
- Do different groups of people have any noticeable discrepancy when committing the same crimes
- Do different groups of people commit different crimes
- What is size of each data set and how much data will I need to get from each one

Potential obstacles/limitation of the project

- Being able to meaningfully quantify the groups of people who are being discriminated against
- The potential inconsistency/discrepancy between the race of people vs their ethnicity



Berkshire and Northwestern Data collection

- Which data had correlation and how could this be expanded on
- What crime, dispositions, and sentences were most common among races (by percentage)
- Which races had the highest percentage of which crimes

Berkshire Correlation matrix:

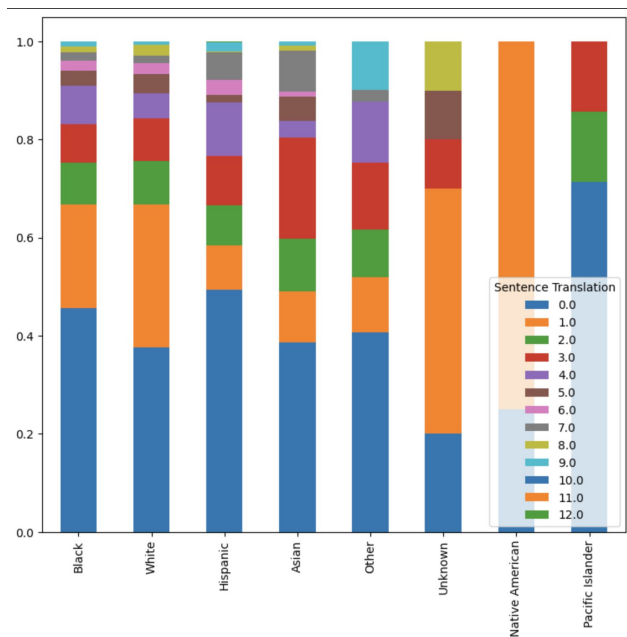
	Race	Gender	Case Type	Crime Type	Disp Type	Disp Desc	Sentence Translation
Race	1.000000	-0.043269	0.020531	0.024806	0.053840	0.021522	0.041500
Gender	-0.043269	1.000000	-0.109267	-0.048112	0.003908	-0.055263	-0.026162
Case Type	0.020531	-0.109267	1.000000	0.535741	0.021329	0.111777	0.044718
Crime Type	0.024806	-0.048112	0.535741	1.000000	0.016928	0.089496	0.065391
Disp Type	0.053840	0.003908	0.021329	0.016928	1.000000	0.385834	0.284710
Disp Desc	0.021522	-0.055263	0.111777	0.089496	0.385834	1.000000	0.288994
Sentence Translation	0.041500	-0.026162	0.044718	0.065391	0.284710	0.288994	1.000000

Northwestern Correlation matrix:

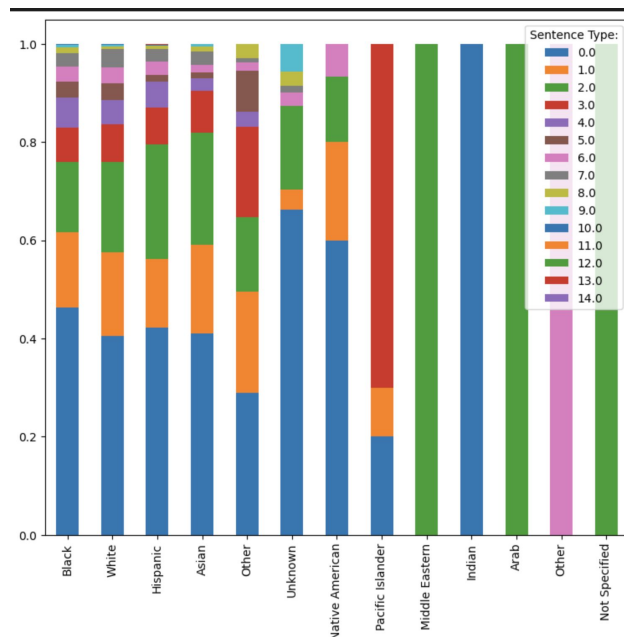
	Race:	Gender:	Crime Type:	Disposition:	Sentence Type:
Race:	1.000000	-0.008368	-0.002590	0.012544	0.011472
Gender:	-0.008368	1.000000	-0.039532	-0.009664	0.062917
Crime Type:	-0.002590	-0.039532	1.000000	0.065827	0.024632
Disposition:	0.012544	-0.009664	0.065827	1.000000	0.139413
Sentence Type:	0.011472	0.062917	0.024632	0.139413	1.000000

Visual Representation of Crime-Race Relation

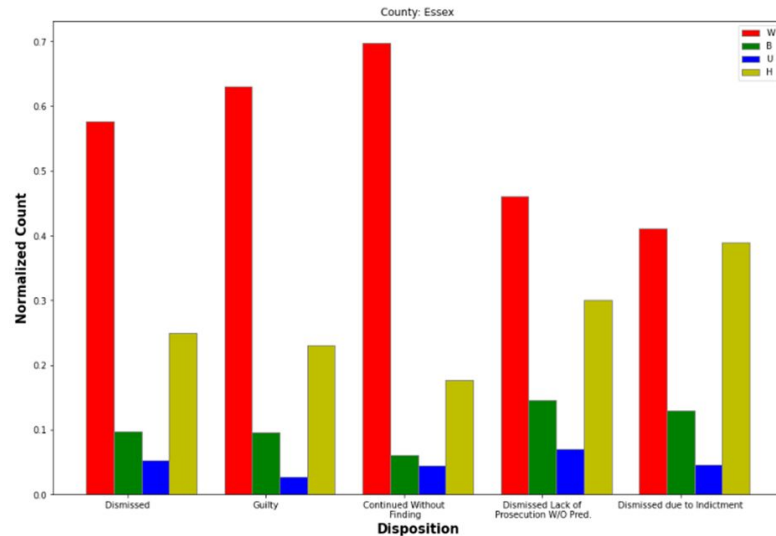
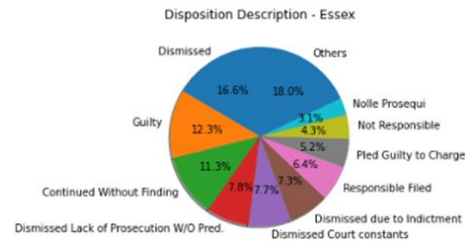
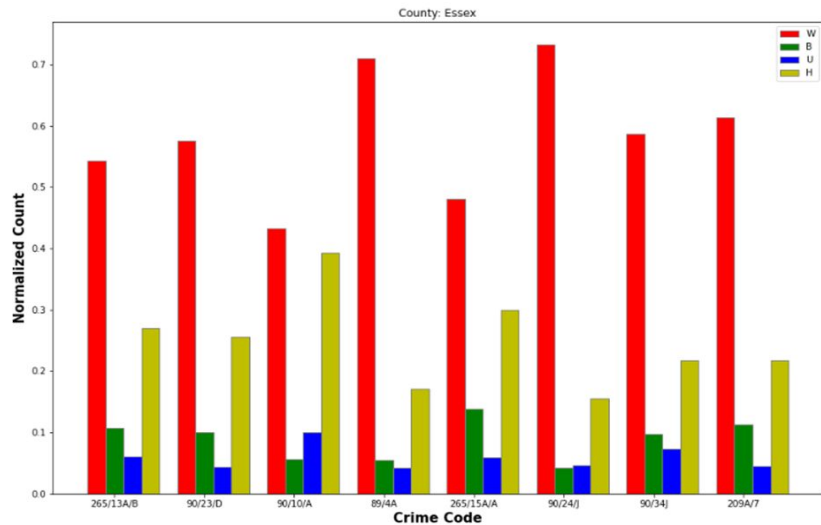
Berkshire Bar Graph Data:



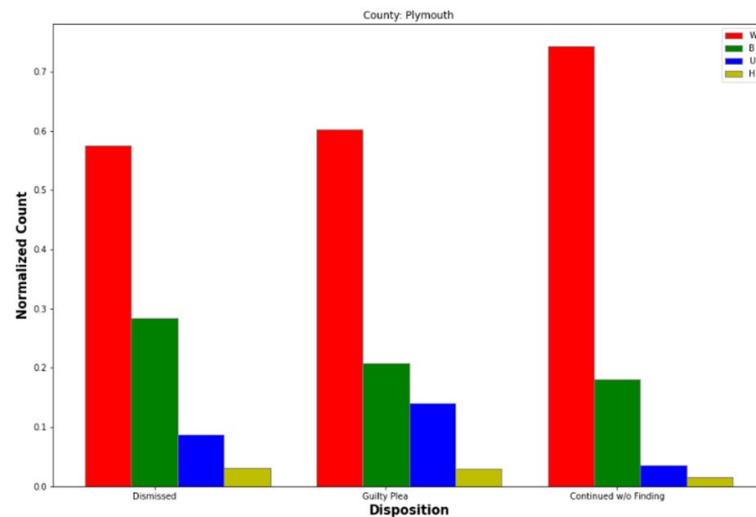
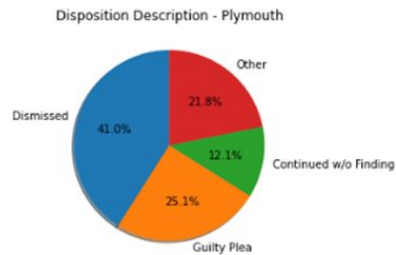
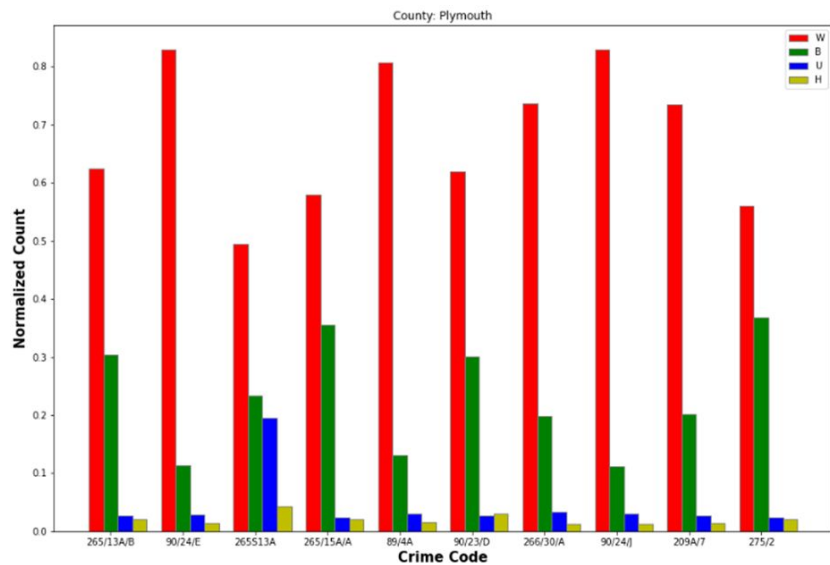
Northwestern Bar Graph Data:



Essex Data Insights

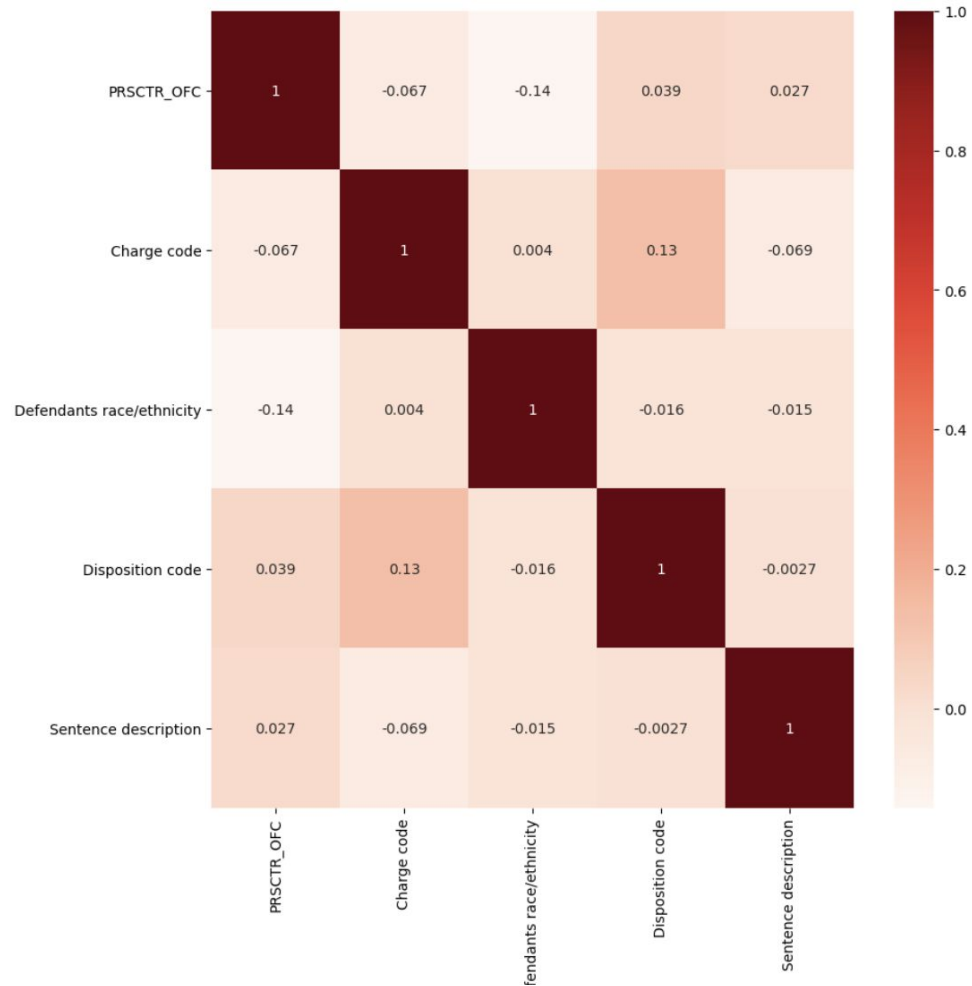


Plymouth Data Insights

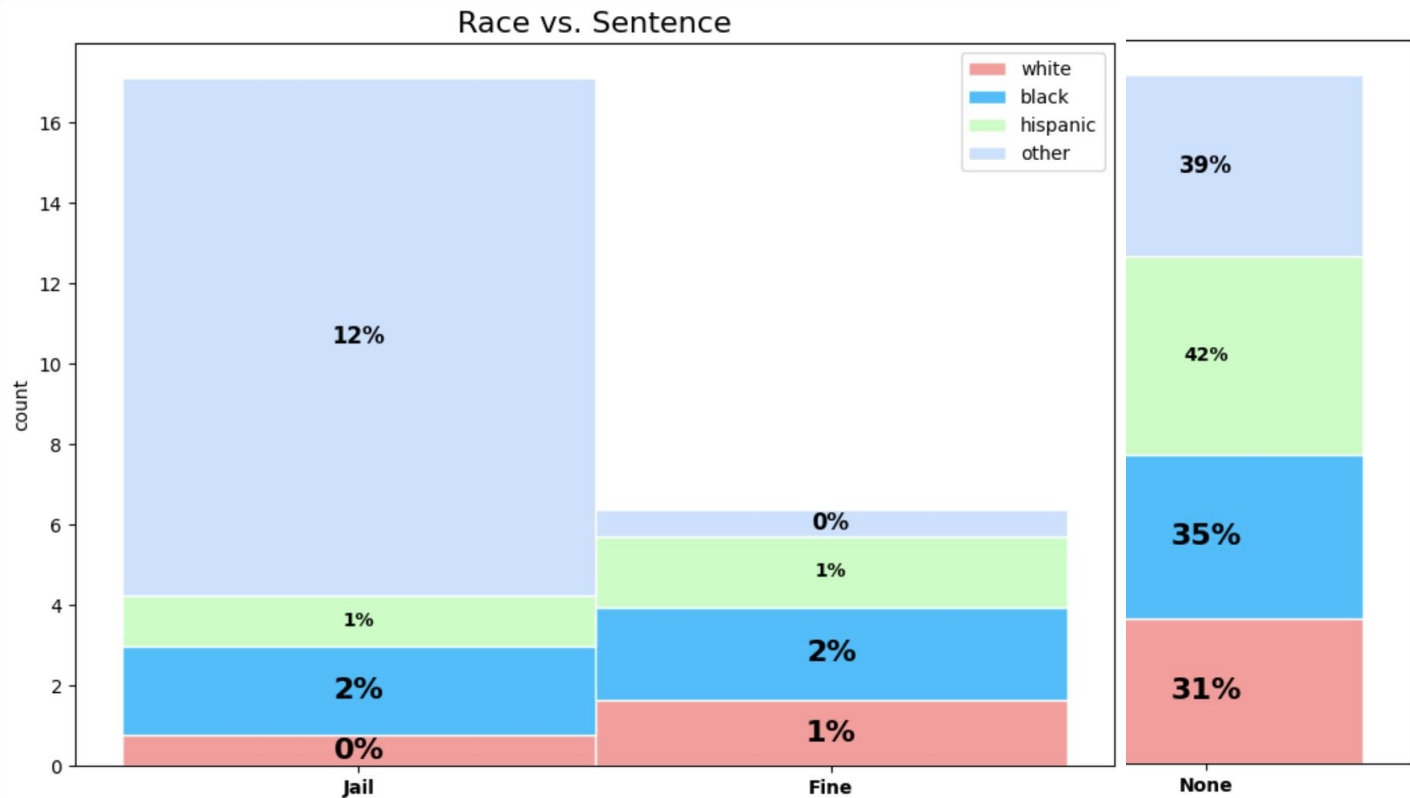


Worcester

- Heatmap showing correlation between the features
- Most significant correlations with Defendant's race/ethnicity
 - Disposition Code
 - Sentence Description

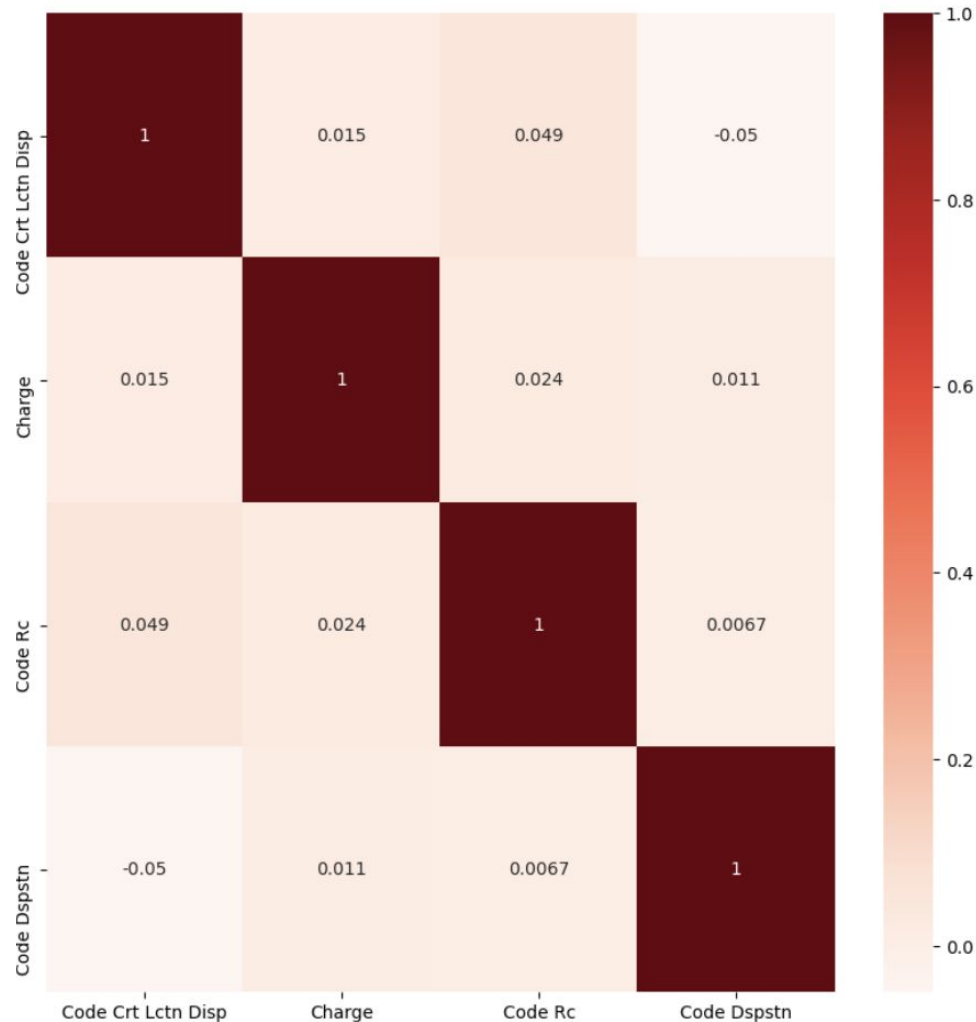


Worcester: DRUG, POSSESS CLASS B c94C ?34



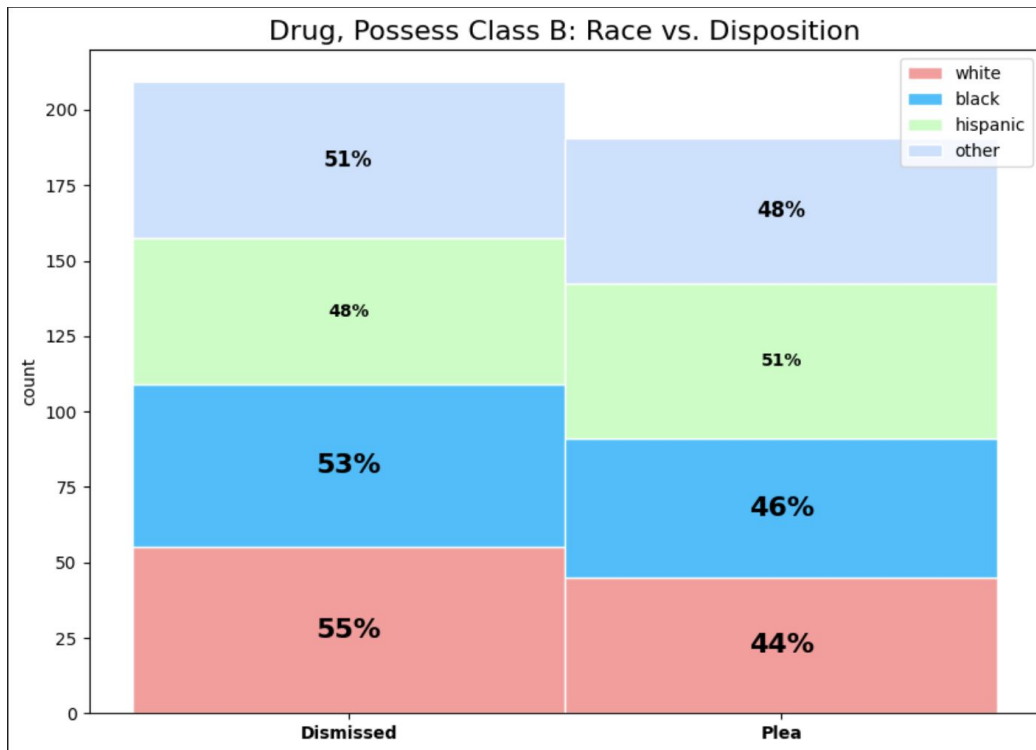
Norfolk

- Heatmap showing correlation between the features
- Most significant correlations with Defendant's Race (Code Rc)
 - Court Location (Code Crt Lctn Disp)
 - Charge



Norfolk:

DRUG, POSSESS CLASS B c94C ?34



Thank you