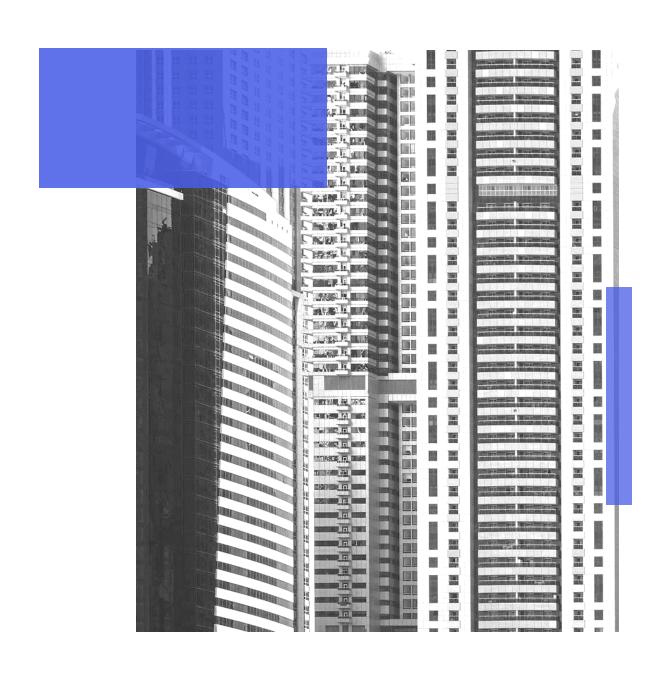
BY JUSTIN WONG

DO KNICK GAMES IMPACT CRIME RATES IN SURROUNDING AREAS2



AGENDA

INTRODUCTION

EXPLORATORY DATA ANALYSIS

IMPLICATIONS FOR STAKEHOLDERS

ETHICAL, LEGAL, SOCIETAL IMPLICATIONS

CONCLUSION

INTRO



As a sports fan, I'm really intrigued by what happens after sporting events. After seeing the chaos unfold on social media following games, I wanted to investigate this phenomenon further.

HOW WE GET THERE



TRACTABLE DATA

- The crime data from NYPD CompStat and game data from sources like ESPN are publicly available
- The dataset includes comprehensive crime statistics and detailed game information



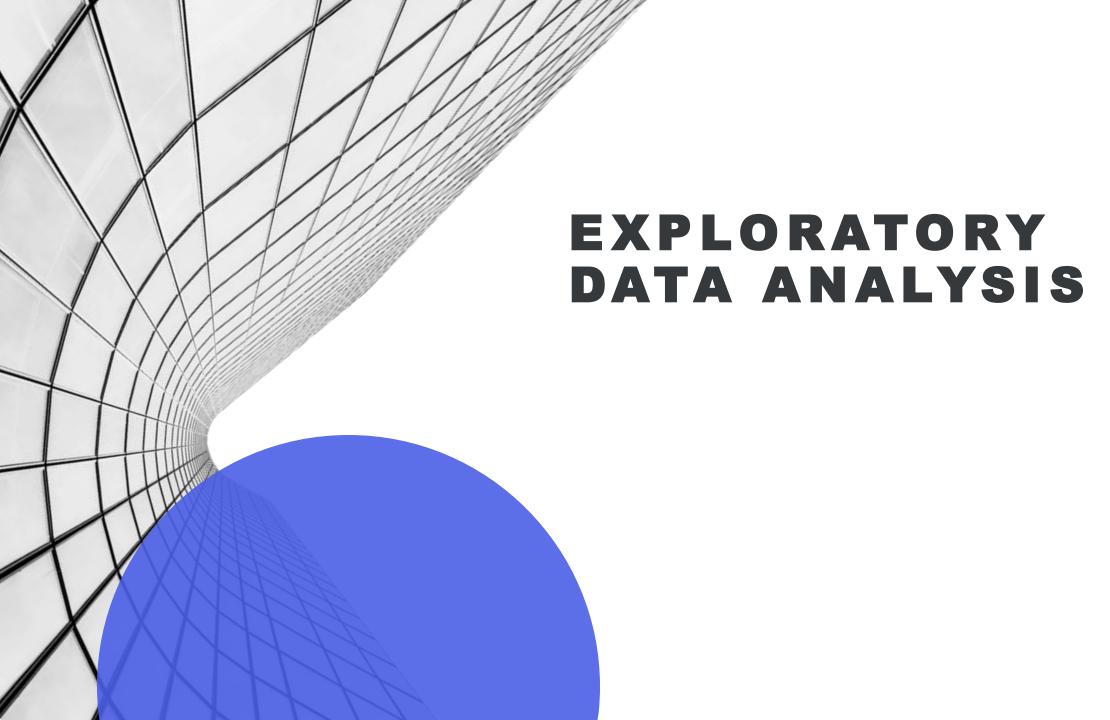
DATA RETRIEVAL

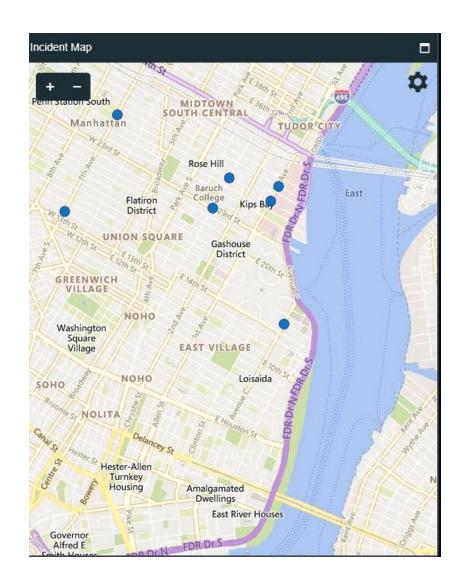
- In order to get GameDay data I utilized Selenium to web scrape ESPN for the 2023-2024 season
- In order to access crime data I
 was able to find an API posted
 by the NYPD filing crime data in
 2024



MERGING DATASETS

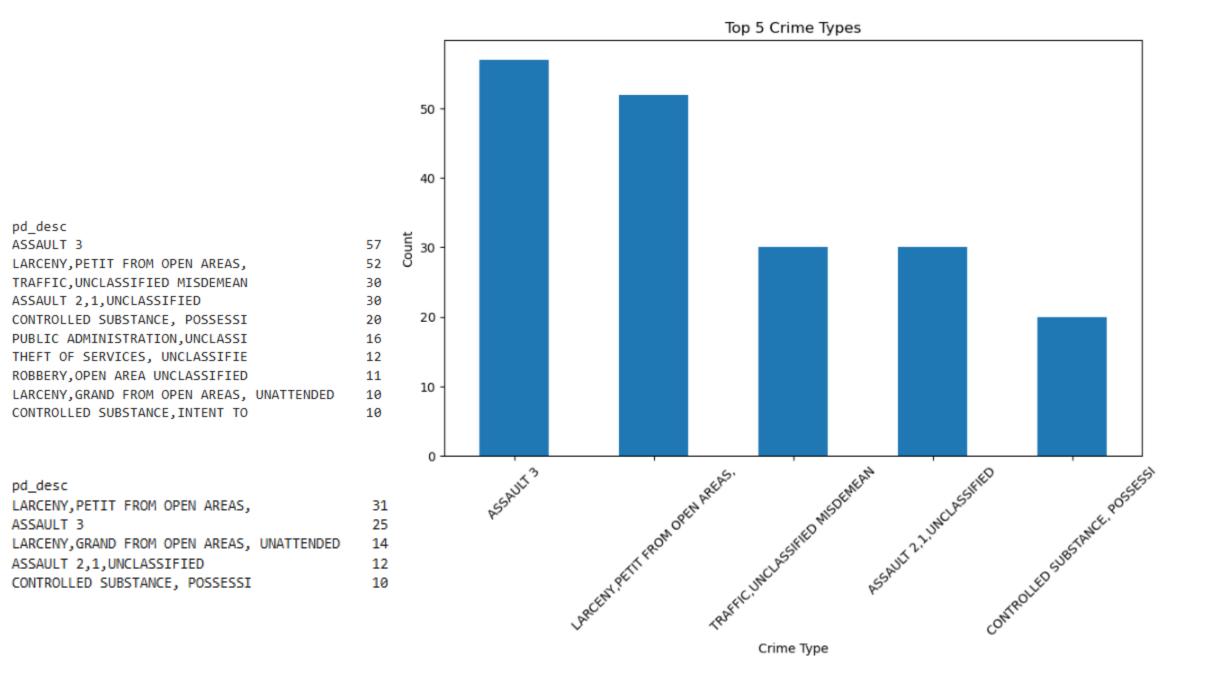
- To Merge the two different datasets, I performed an inner merge
- Any game day without an arrest will be dropped from the final dataset.





2025 Attendance		Home				Road			Overall		
RK	TEAM	GMS	TOTAL	AVG	<u>PCT</u>	GMS	AVG	<u>PCT</u>	GMS	AVG	PCT
1	Mavericks	28	562,353	20,084		28	18,217		56	19,167	
2	76ers	27	535,260	19,824		27	17,798	2669.7	54	18,811	5643.4
3	NY Knicks	29	574,548	19,812		25	18,545		54	19,225	
4	Bulls	29	573,474	19,774		26	18,001	2600.2	55	18,936	5786.2
5	Nuggets	27	533,546	19,760		28	18,117	2818.3	55	18,924	5782.5
6	Heat	23	453,444	19,714		30	18,074	3012.5	53	18,786	5531.6
7	Cavaliers	29	563,528	19,432		25	18,496		54	18,998	





OLS Regression Results

<u></u>										
Dep. Variable:	(Crime_Count	R-squared:			0.035				
Model:		OLS	Adj. R-squ	ared:	0.028					
Method:	Lea	ast Squares	F-statisti	c:	5.285					
Date:	Mon, 1	L7 Feb 2025	Prob (F-st	atistic):	0.00137					
Time:		20:52:08	Log-Likeli	hood:	-1227.5					
No. Observations:		440	AIC:		2463.					
Df Residuals:		436	BIC:		2479.					
Df Model:		3								
Covariance Type:		nonrobust								
	coef	std err	t		[0.025	-				
const	9.3836	0.406								
Attendance -3	.803e-15	2.76e-15	-1.378	0.169	-9. <u>23e-15</u>	1.62e-15				
Home/Away_Home	0.8507	0.390	2.180	0.030	0.084	1.618				
Win/Loss_Win	1.0926	0.402	2.715	0.007	0.302	1.883				
OT_Yes	-1.3779	1.301	-1.059	0.290	-3.936	1.180				
Omnibus:			 Durbin-Wat	son:	=========	0.192				
Prob(Omnibus):			Jarque-Ber		50.399					
Skew:			Prob(JB):	_ (/-	1.14e-11					
Kurtosis:		3.829	Cond. No.		9.47e+17					

AREAS OF FOCUS

IMPLICATIONS FOR STAKEHOLDERS

•Increased crime following major events may require law enforcement to allocate more resources to manage post-game situations, affecting staffing and budgeting priorities.

ETHICAL, LEGAL, SOCIETAL IMPLICATIONS

•Analyzing crime data could raise concerns about profiling, biases in data collection, and how it might influence policy decisions or public perceptions of specific communities.



CONCLUSION

- The results of the analysis are inconclusive at this stage, indicating the need for further data retrieval
- This analysis serves as a good start for recommendations on policy updates aimed at mitigating the potential impact of sporting events on crime rates

