PROJECT BENSON

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Daily ridership in the millions

Decrease inefficiency

Keep spending within a limited budget

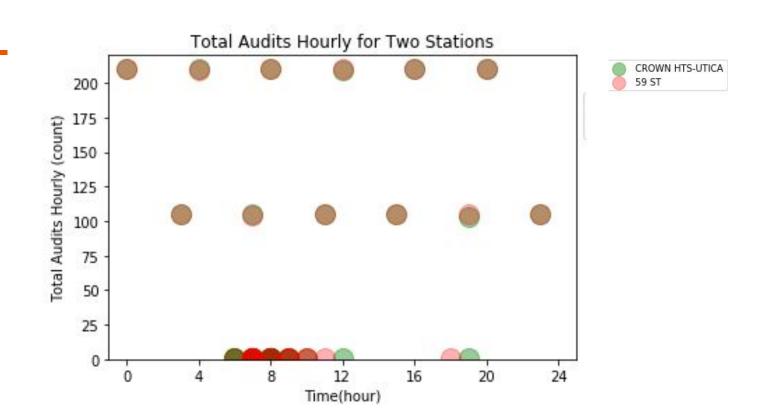


Data Introduction and Objective

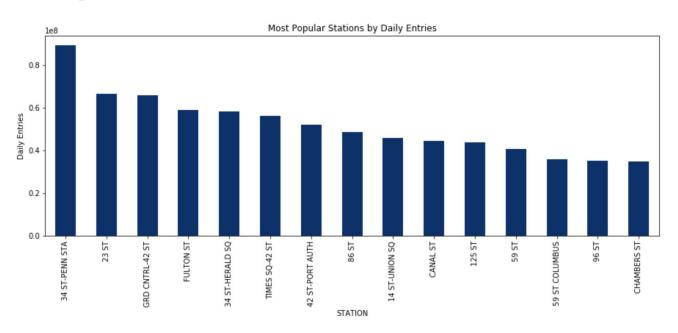
- Analyze turnstile data from 2017
- Establish relationship between broken turnstiles and other features
- ☐ Groundwork for a predictive model

Data Preparation

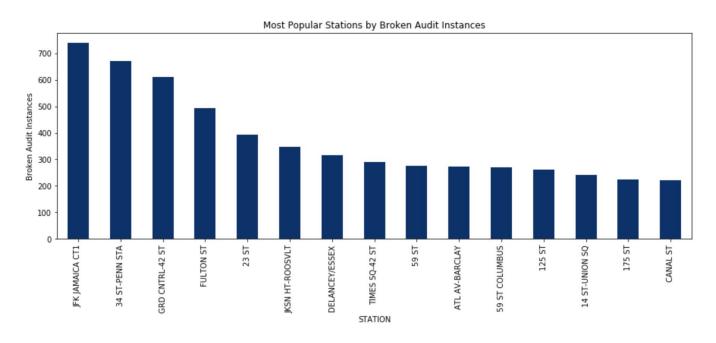
- □ Observe data: "regular" or "recovered" audits
- Transform data: transform table into DataFrame for further analysis



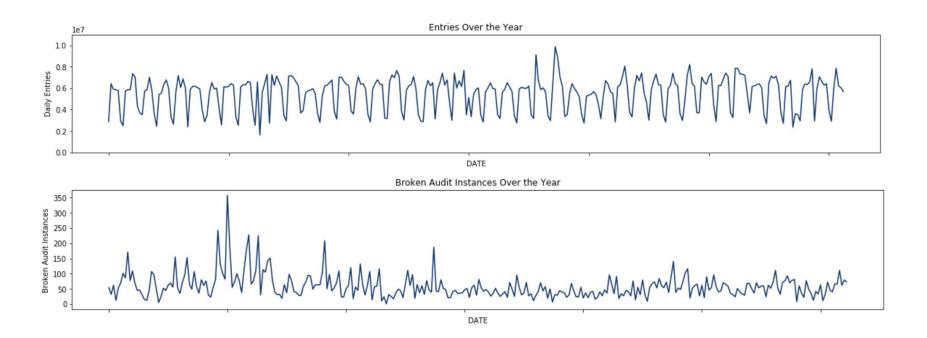
Most Popular Stations



Stations With Most Broken Turnstiles

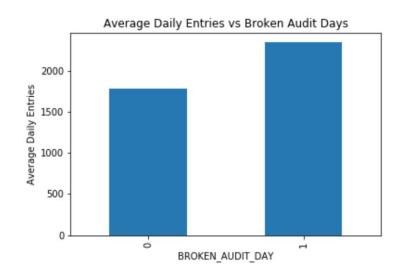


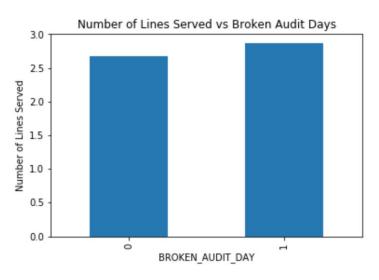
Trends Over the Year



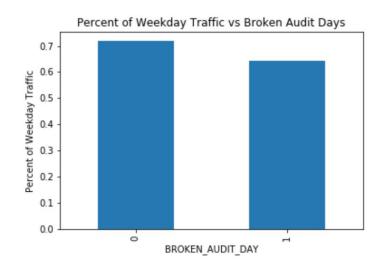
CONCLUSION

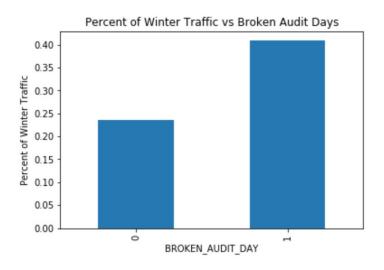
More Obvious Relationships





Less Obvious Relationships

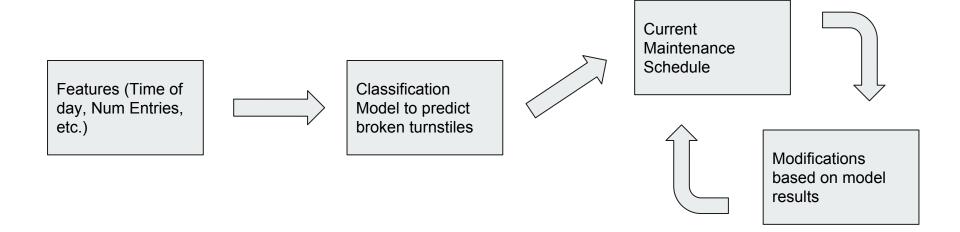




Conclusion

- Relationship between rate of recovered audits and foot traffic (entries and exits)

Implications and Future Directions



Thank you for your time.

Any questions?

Interesting Insights

<pre>turnstiles_daily_use.describe()</pre>			
	DAILY ENTRIES	DAILY EVITE	
	DAILY_ENTRIES	DAILY_EXITS	
count	1.462563e+06	1.462563e+06	1.4
mean	4.266795e+04	1.425506e+04	7.1
std	6.519426e+06	2.747700e+06	4.4
min	0.000000e+00	0.000000e+00	0.0
25%	2.800000e+02	1.550000e+02	0.0
50 %	8.640000e+02	5.330000e+02	1.0
75%	1.675000e+03	1.211000e+03	1.0
max	2.122193e+09	1.145297e+09	1.0

