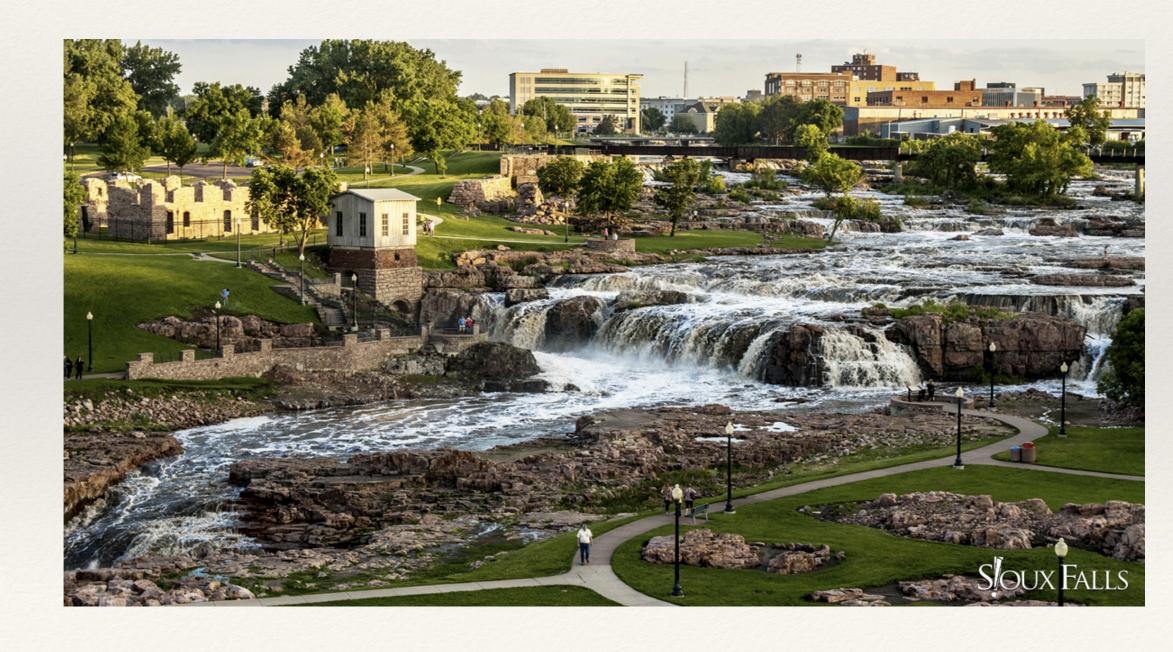
Analysis of Sioux Falls Restaurants



Predictive uses for Sioux Falls restaurants

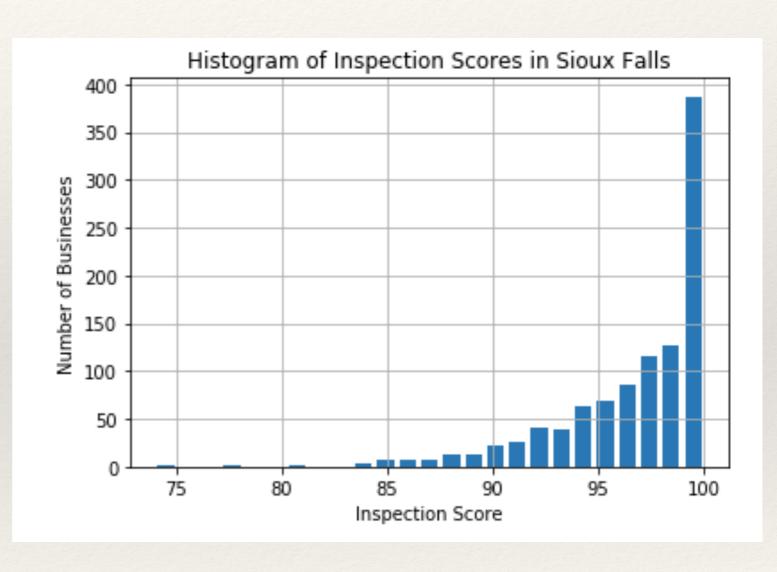
- * Trends in inspection scores vs geographic location
 - Does the location affect inspection scores?
- * Where is the best location for a new restaurant or relocation of a previously existing restaurant?

Data Acquisition and Cleaning

- * Sioux Falls inspections obtained from:
- http://webapps.siouxfalls.org/inspections/restaurants.aspx
- * After web scraping, duplicates were dropped, data was organized in descending order.
- * Raw data contained 1,047 rows and 4 features.
- * After merging with latitude and longitude data frame and dropping duplicates or non usable data, the data frame contained 940 rows and 7 features.

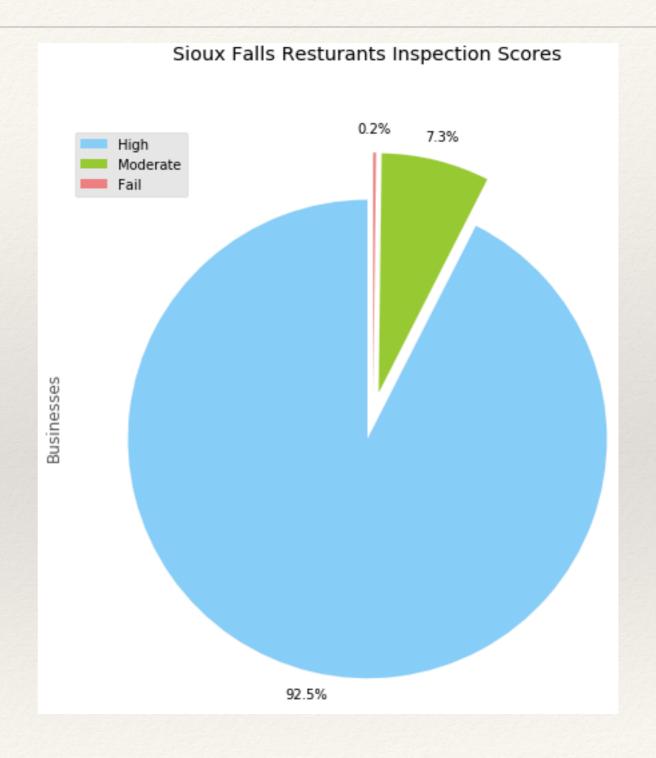
Distribution of Inspection Scores

- * Scores reported over a duration of 30 days
- High percentage of businesses pass
- 2 did not (cut score is80)



Percentage Breakdowns

- * 3 Categories for scores
 - * High (90 on up)
 - * Midrange (80 to 89)
 - * Fail (Below 80)



High scores over the previous month

[[0 5] [0 142]]				
	precision	recall	f1-score	support
2.0	0.00	0.00	0.00	5
3.0	0.97	1.00	0.98	142
avg / total	0.93	0.97	0.95	147

- * f1-score of 95%
- * Values of 2 and 3 are both passing.

Conclusion

- * Model predicted very well.
- * Future monthly inspections should be used to verify models consistency.
- * Low amount of inspection failures created very skewed data.