Introduction:

The housing price is highly dependent on both the surrounding items and the housing features. This research gathers historical information on the change of housing price and build a model in order to predict housing price according to features.

Data:

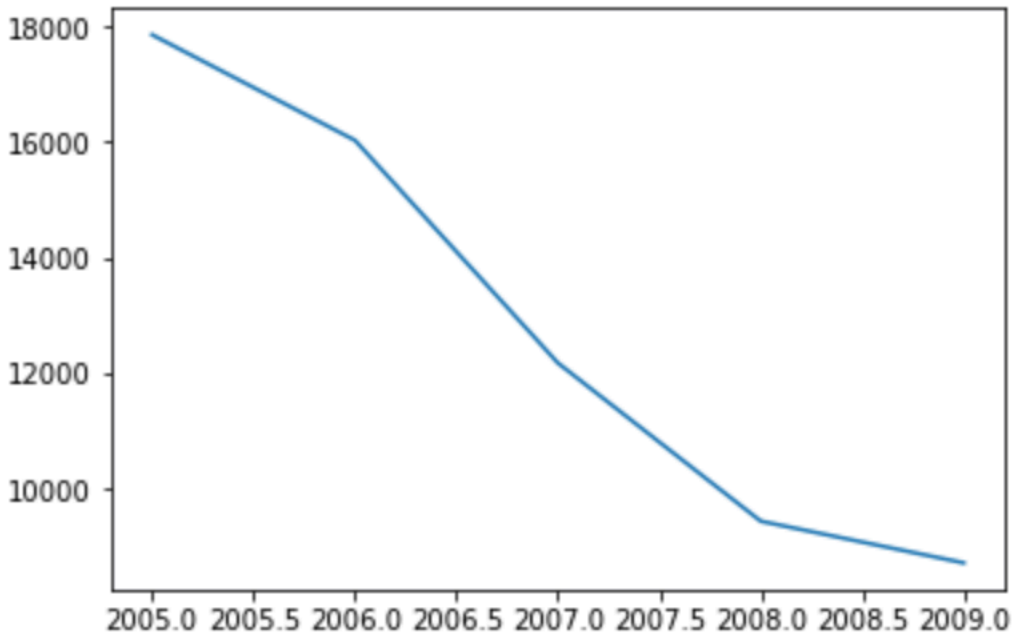
Data used in this project, besides foursquare, are a few historical housing price datasets collected from public data. This is because I am analyzing the correlation of housing price and surrounding neighborhoods.

Feature table after cleaning

	AVERAGE SALE PRICE	YEAR	AIRPORT LA GUARDIA	ARVERNE	ASTORIA	BAYSIDE	BEECHHURST	BELLE HARBOR	BELLEROSE	BRIARWOOD	...	SOUTH OZONE PARK	SPRINGFIELD GARDENS	ST. ALBANS	SUN
0	445958.0	2005	1	0	0	0	0	0	0	0	...	0	0	0	
1	507500.0	2005	1	0	0	0	0	0	0	0	...	0	0	0	
2	745000.0	2005	1	0	0	0	0	0	0	0	...	0	0	0	
3	305615.0	2005	0	1	0	0	0	0	0	0	...	0	0	0	
4	414127.0	2005	0	1	0	0	0	0	0	0	...	0	0	0	

Basic analysis:

Sale Number Trend



Sale Average Price Trend

Model Precision:

```
model.score(x, y)
```

```
0.7374219966049277
```