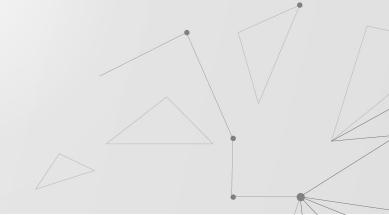




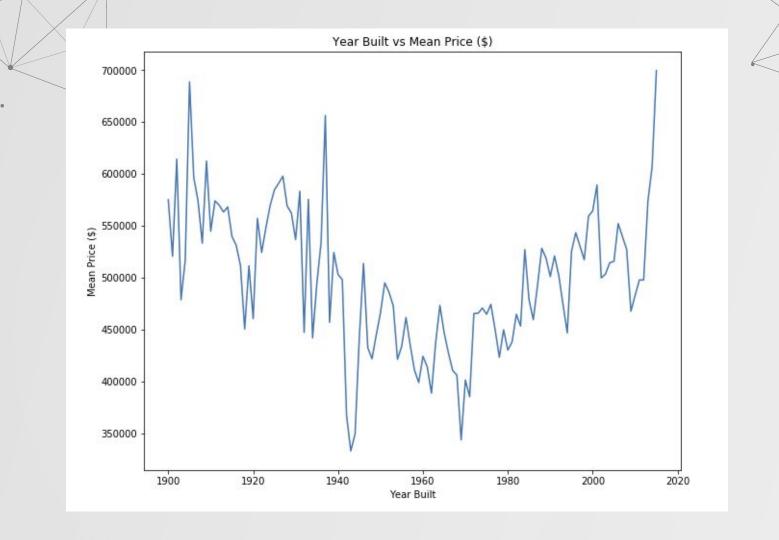
Business Proposal

Predicting the sales prices of houses in Kings County, WA with pre-existing Data

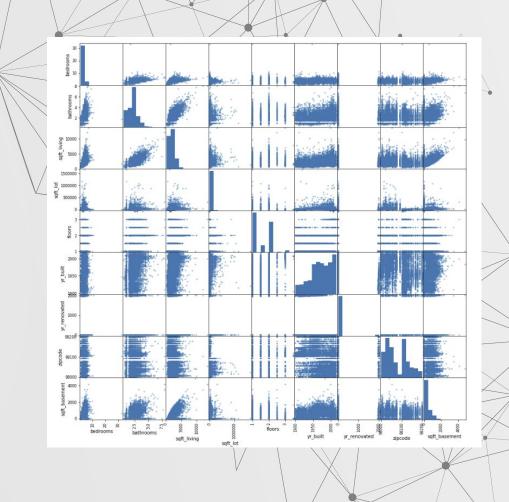


Given Features

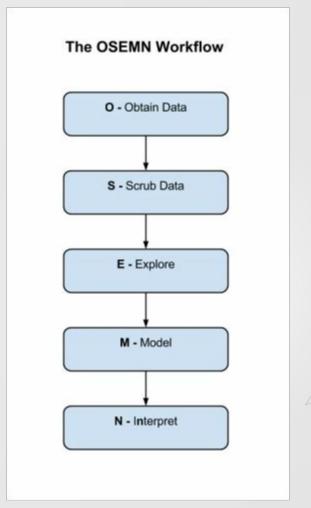
id id number for the data entry date date the house was sold price price of the house bedrooms number of bedrooms in the house bathrooms number of bathrooms in the house. sqft living square footage of the living room sqft lot square footage of the lot size floors number of floors in the house waterfront if the house is located at the waterfront (1 = yes, 0 = no) view does the house have a view condition condition of the house grade grade level of the house sqft above square footage of the house not including the basement sqft basement square footage of only the basement yr built year the house was built yr renovated year the house was renovated zipcode zipcode where the house is located lat latitude where the house is located long longitude where the house is located sqft_living15 square footage of the living area in 2015 (this implies there were renovations) sqft lot15 square footage of the lot size in 2015



Methodology



OSEMN: Data Science Method





No significant linear correlation

Dep. Variable:	price	R-squared:	0.492	
Model:	OLS	Adj. R-squared:	0.491	
Method:	Least Squares	F-statistic:	740.2	
Date:	Fri, 28 Feb 2020	Prob (F-statistic):	0.00	
Time:	14:19:55	Log-Likelihood:	-5063.4	
No. Observations:	14559	AIC:	1.017e+04	
Df Residuals:	14539	BIC:	1.032e+04	
Df Model:	19			
Covariance Type:	nonrobust			

	coef	std err	t	P> t	[0.025	0.975]
const	18.6592	0.258	72.202	0.000	18.153	19.166
sqft_living	0.0002	1.53e-05	13.517	0.000	0.000	0.000
sqft_lot	-8.731e-06	5.07e-07	-17.209	0.000	-9.73e-06	-7.74e-06
sqft_above	0.0003	1.6e-05	17.473	0.000	0.000	0.000
yr_built	-0.0035	0.000	-28.037	0.000	-0.004	-0.003
basement_1	0.1826	0.011	16.148	0.000	0.160	0.205
view_1	0.1847	0.024	7.742	0.000	0.138	0.231
view_2	0.1652	0.015	11.045	0.000	0.136	0.194
view_3	0.2370	0.022	10.890	0.000	0.194	0.280
view_4	0.4909	0.030	16.562	0.000	0.433	0.549
cond_2	0.0009	0.083	0.010	0.992	-0.163	0.164
cond_3	0.2905	0.077	3.766	0.000	0.139	0.442
cond_4	0.3121	0.077	4.045	0.000	0.161	0.463
cond_5	0.3759	0.078	4.841	0.000	0.224	0.528
bed_2	0.0635	0.030	2.093	0.036	0.004	0.123
bed_3	-0.0254	0.030	-0.842	0.400	-0.084	0.034
bed_4	-0.0894	0.031	-2.899	0.004	-0.150	-0.029
bath_1	0.1147	0.048	2.394	0.017	0.021	0.209
bath_2	0.2028	0.048	4.185	0.000	0.108	0.298
bath_3	0.2871	0.050	5.741	0.000	0.189	0.385

Omnibus:	28.875	Durbin-Watson:	2.026
Prob(Omnibus):	0.000	Jarque-Bera (JB):	29.005
Skew:	-0.107	Prob(JB):	5.03e-07
Kurtosis:	2.953	Cond. No.	9.88e+05