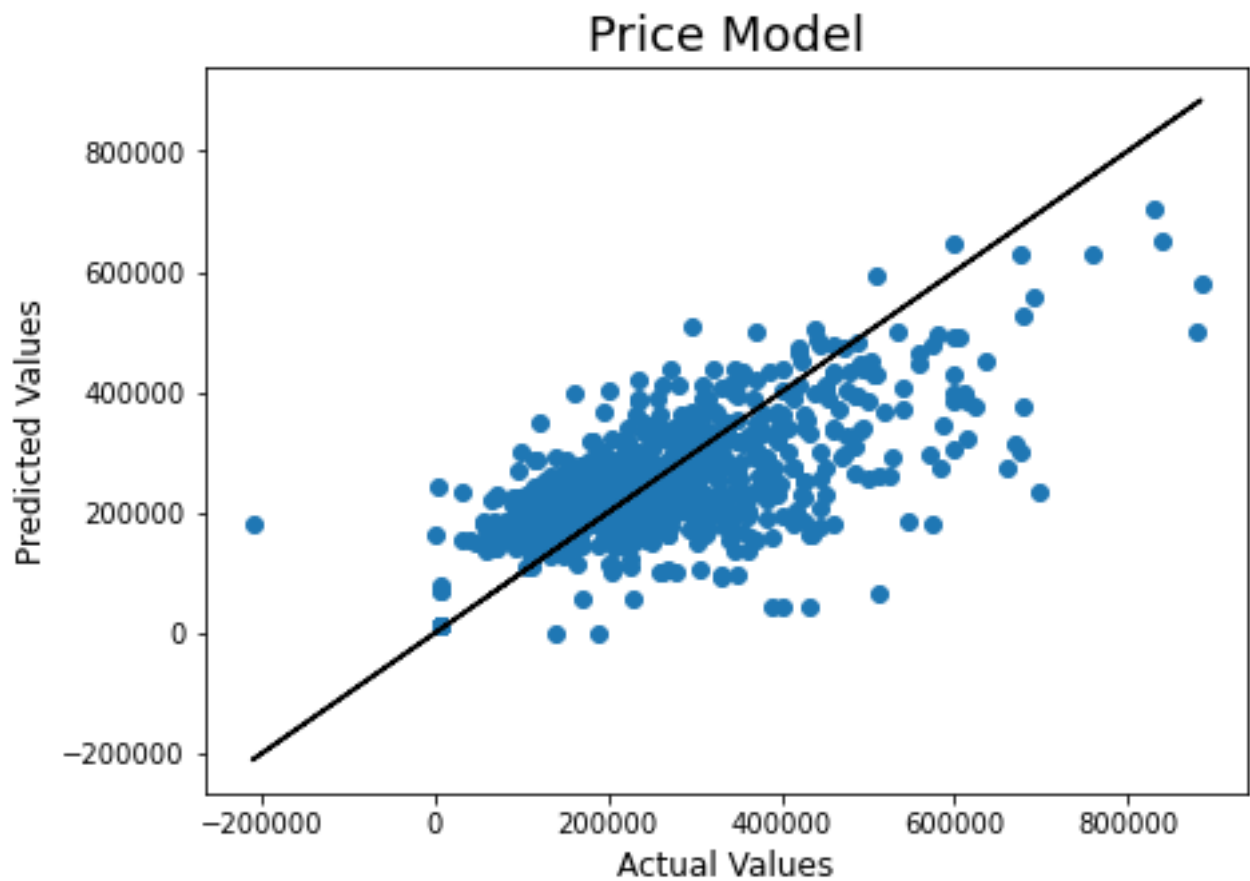


Sacramento Pricing Model



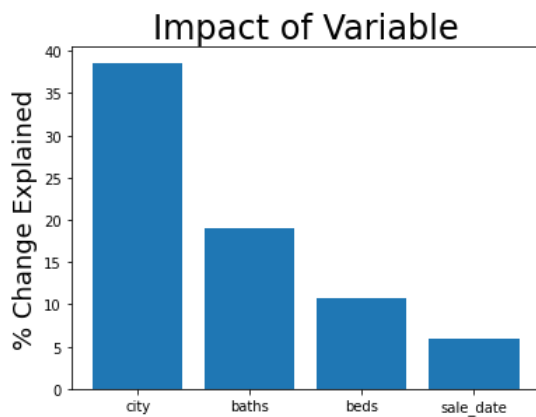
	feature	original_feature	engineering	type	r2_score
0	city_mode_imputed	city	mode_imputed	categorical	0.385468
1	baths_mean_imputed^2	baths	mean_imputed^2	numeric	0.189324
2	beds_mean_imputed^2	beds	mean_imputed^2	numeric	0.107575
3	sale_date_mode_imputed	sale_date	mode_imputed	categorical	0.059525

Main Model Summary

OLS Regression Results						
Dep. Variable:	price	R-squared (uncentered):	0.867			
Model:	OLS	Adj. R-squared (uncentered):	0.866			
Method:	Least Squares	F-statistic:	1593.			
Date:	Fri, 14 Oct 2022	Prob (F-statistic):	0.00			
Time:	00:52:28	Log-Likelihood:	-12731.			
No. Observations:	985	AIC:	2.547e+04			
Df Residuals:	981	BIC:	2.549e+04			
Df Model:	4					
Covariance Type:	nonrobust					
	coef	std err	t	P> t	[0.025	0.975]
city_mode_imputed	0.7063	0.033	21.109	0.000	0.641	0.772
baths_mean_imputed^2	1.254e+04	1456.901	8.608	0.000	9682.503	1.54e+04
beds_mean_imputed^2	793.8100	697.757	1.138	0.256	-575.458	2163.078
sale_date_mode_imputed	0.1265	0.038	3.358	0.001	0.053	0.200
Omnibus:	230.700	Durbin-Watson:	0.916			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	547.043			
Skew:	1.251	Prob(JB):	1.63e-119			
Kurtosis:	5.659	Cond. No.	1.53e+05			

Notes:

- [1] R^2 is computed without centering (uncentered) since the model does not contain a constant.
- [2] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [3] The condition number is large, 1.53e+05. This might indicate that there are strong multicollinearity or other numerical problems.



OLS Regression Results

```

=====
Dep. Variable:      city_mode_imputed      R-squared (uncentered):
Model:              OLS                    Adj. R-squared (uncentered):
Method:             Least Squares          F-statistic:
Date:               Fri, 14 Oct 2022        Prob (F-statistic):
Time:               00:52:29               Log-Likelihood:           -1
No. Observations:   985                   AIC:                     2.53
Df Residuals:       984                   BIC:                     2.54
Df Model:           1
Covariance Type:    nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
price	0.7871	0.011	70.121	0.000	0.765	0.809

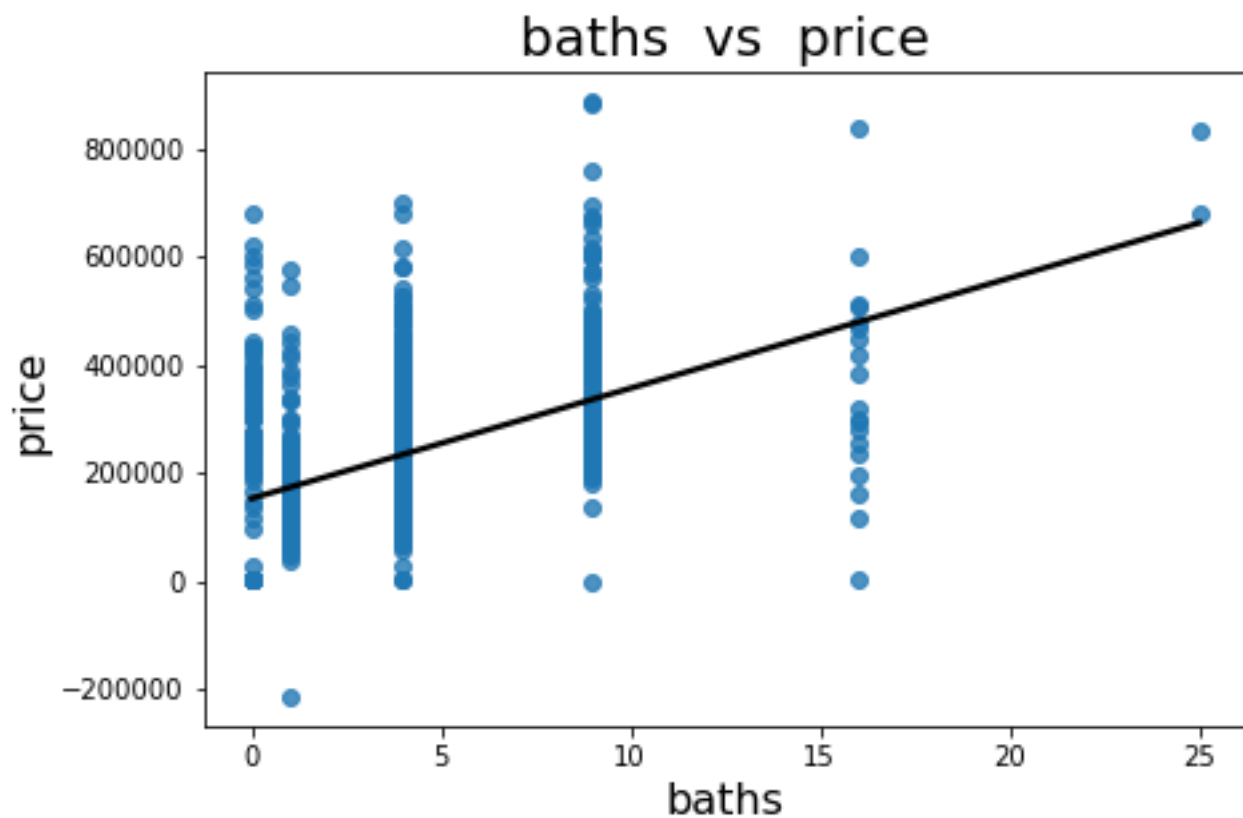
```

=====
Omnibus:              179.068      Durbin-Watson:           1.216
Prob(Omnibus):        0.000      Jarque-Bera (JB):        457.693
Skew:                 -0.955      Prob(JB):               4.10e-100
Kurtosis:             5.740      Cond. No.                1.00
=====

```

Notes:

- [1] R² is computed without centering (uncentered) since the model does not contain a constant
- [2] Standard Errors assume that the covariance matrix of the errors is correctly specified



Variable Type: numeric

Engineering: mean_imputed^2

OLS Regression Results

```

=====
Dep. Variable:    baths_mean_imputed^2    R-squared (uncentered):
Model:            OLS                    Adj. R-squared (uncentered):
Method:           Least Squares          F-statistic:
Date:             Fri, 14 Oct 2022        Prob (F-statistic):
Time:             00:52:30                Log-Likelihood:
No. Observations: 985                    AIC:
Df Residuals:     984                    BIC:
Df Model:         1
Covariance Type:  nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
price	1.537e-05	3.44e-07	44.701	0.000	1.47e-05	1.6e-05

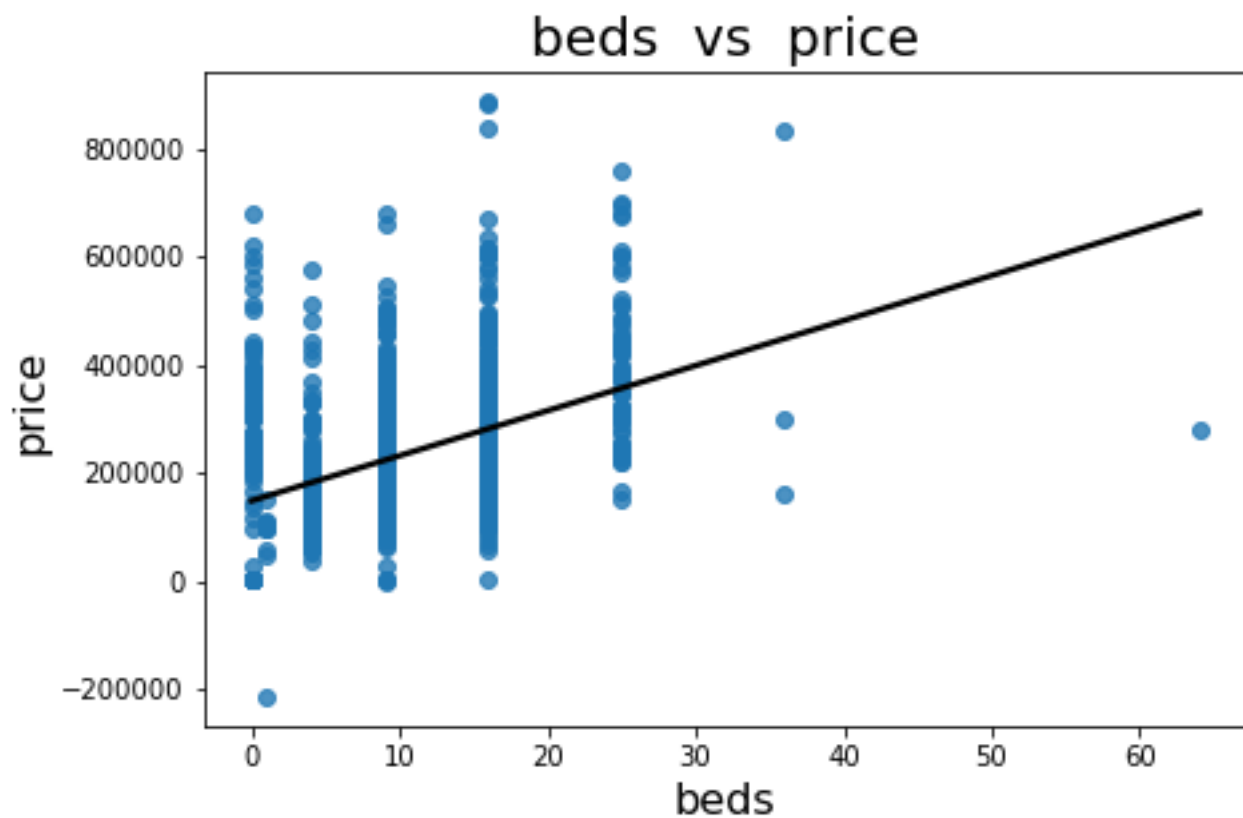
```

=====
Omnibus:            168.890    Durbin-Watson:           1.837
Prob(Omnibus):      0.000     Jarque-Bera (JB):        884.689
Skew:               0.676     Prob(JB):                7.80e-193
Kurtosis:           7.441     Cond. No.                1.00
=====

```

Notes:

- [1] R^2 is computed without centering (uncentered) since the model does not contain
- [2] Standard Errors assume that the covariance matrix of the errors is correctly s



Variable Type: numeric

Engineering: mean_imputed^2

OLS Regression Results

```

=====
Dep. Variable:      beds_mean_imputed^2    R-squared (uncentered):
Model:              OLS                    Adj. R-squared (uncentered):
Method:             Least Squares          F-statistic:
Date:               Fri, 14 Oct 2022        Prob (F-statistic):      2.6
Time:               00:52:30                Log-Likelihood:         -
No. Observations:   985                    AIC:
Df Residuals:       984                    BIC:
Df Model:            1
Covariance Type:    nonrobust
=====

```

	coef	std err	t	P> t	[0.025	0.975]
price	3.725e-05	7.96e-07	46.787	0.000	3.57e-05	3.88e-05

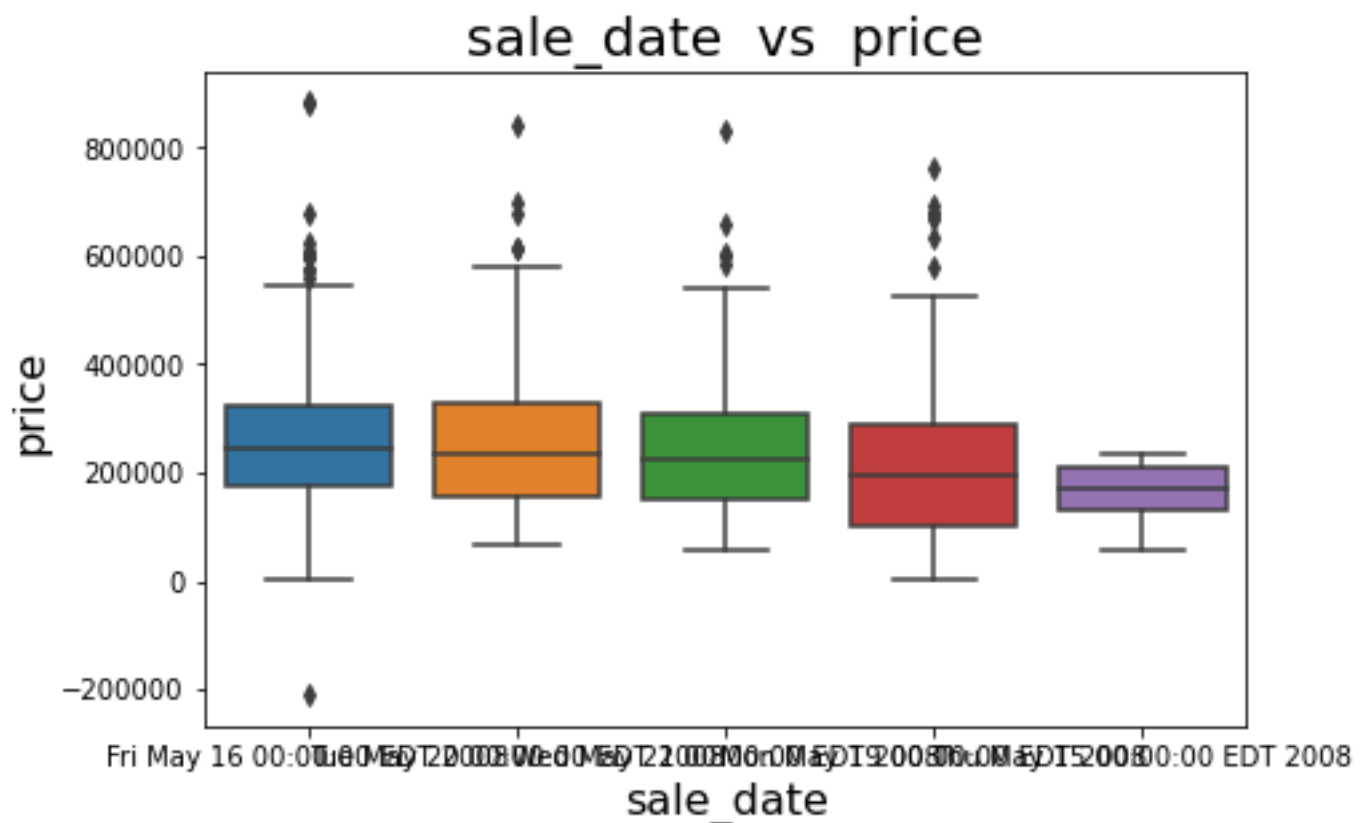
```

=====
Omnibus:            116.082    Durbin-Watson:           1.529
Prob(Omnibus):      0.000     Jarque-Bera (JB):       1028.385
Skew:               0.033     Prob(JB):               4.89e-224
Kurtosis:           8.005     Cond. No.                1.00
=====

```

Notes:

- [1] R² is computed without centering (uncentered) since the model does not contain
- [2] Standard Errors assume that the covariance matrix of the errors is correctly s



Variable Type: categorical

Engineering: mode_imputed

OLS Regression Results

Dep. Variable:	sale_date_mode_imputed	R-squared (uncentered):
Model:	OLS	Adj. R-squared (uncentered):
Method:	Least Squares	F-statistic:
Date:	Fri, 14 Oct 2022	Prob (F-statistic):
Time:	00:52:31	Log-Likelihood:
No. Observations:	985	AIC:
Df Residuals:	984	BIC:
Df Model:	1	
Covariance Type:	nonrobust	

	coef	std err	t	P> t	[0.025	0.975]
price	0.6984	0.013	54.845	0.000	0.673	0.723

Omnibus:	180.284	Durbin-Watson:	0.127
Prob(Omnibus):	0.000	Jarque-Bera (JB):	371.647
Skew:	-1.043	Prob(JB):	1.99e-81
Kurtosis:	5.168	Cond. No.	1.00

Notes:

- [1] R² is computed without centering (uncentered) since the model does not contain
- [2] Standard Errors assume that the covariance matrix of the errors is correctly s