



# House Price Prediction Dashboard

Predict house prices using a Linear Regression model with interactive visualizations



## Dataset Overview

Dataset Shape

Rows

21613

Columns

21

Missing Values

	0
id	
date	
price	
bedrooms	
bathrooms	
sqft_living	
sqft_lot	
floors	
waterfront	
view	

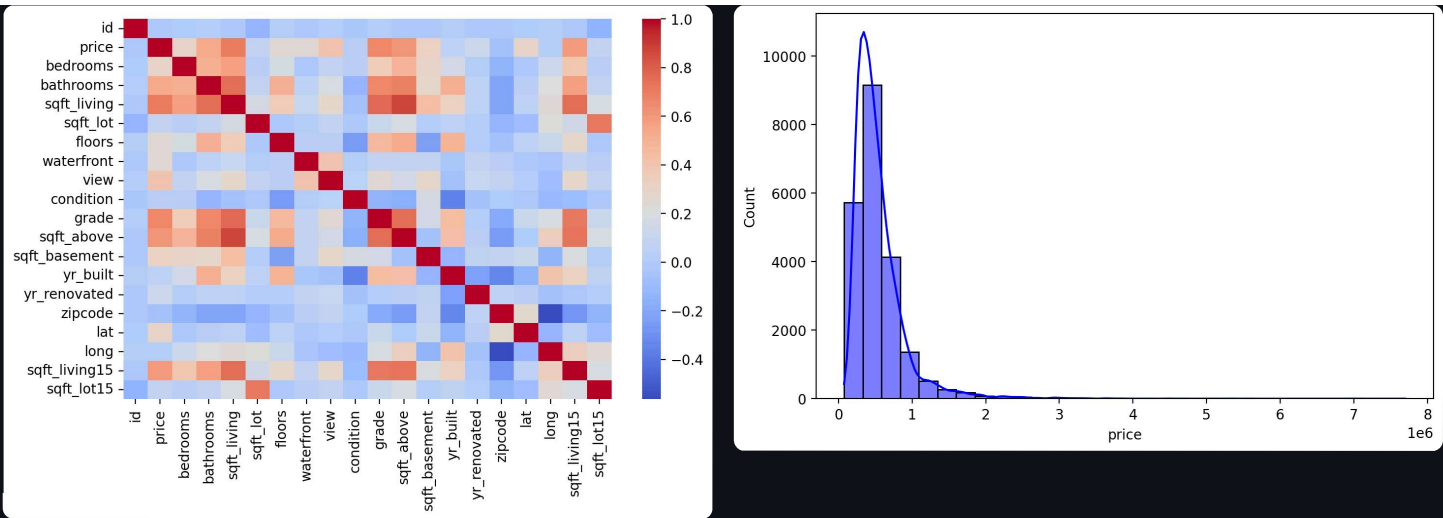
	id	date	price	bedrooms	bathrooms	sqft_living	sqft_lot	floors	waterfront	view	condition	grade	sqft_above	sqft_basement
0	7129300520	20141013T000000	221900	3	1	1180	5650	1	0	0	3	7	1180	0
1	6414100192	20141209T000000	538000	3	2.25	2570	7242	2	0	0	3	7	2170	400
2	5631500400	20150225T000000	180000	2	1	770	10000	1	0	0	3	6	770	0
3	2487200875	20141209T000000	604000	4	3	1960	5000	1	0	0	5	7	1050	910
4	1954400510	20150218T000000	510000	3	2	1680	8080	1	0	0	3	8	1680	0
5	7237550310	20140512T000000	1230000	4	4.5	5420	101930	1	0	0	3	11	3890	1530
6	1321400060	20140627T000000	257500	3	2.25	1715	6819	2	0	0	3	7	1715	0
7	2008000270	20150115T000000	291850	3	1.5	1060	9711	1	0	0	3	7	1060	0
8	2414600126	20150415T000000	229500	3	1	1780	7470	1	0	0	3	7	1050	730
9	3793500160	20150312T000000	323000	3	2.5	1890	6560	2	0	0	3	7	1890	0



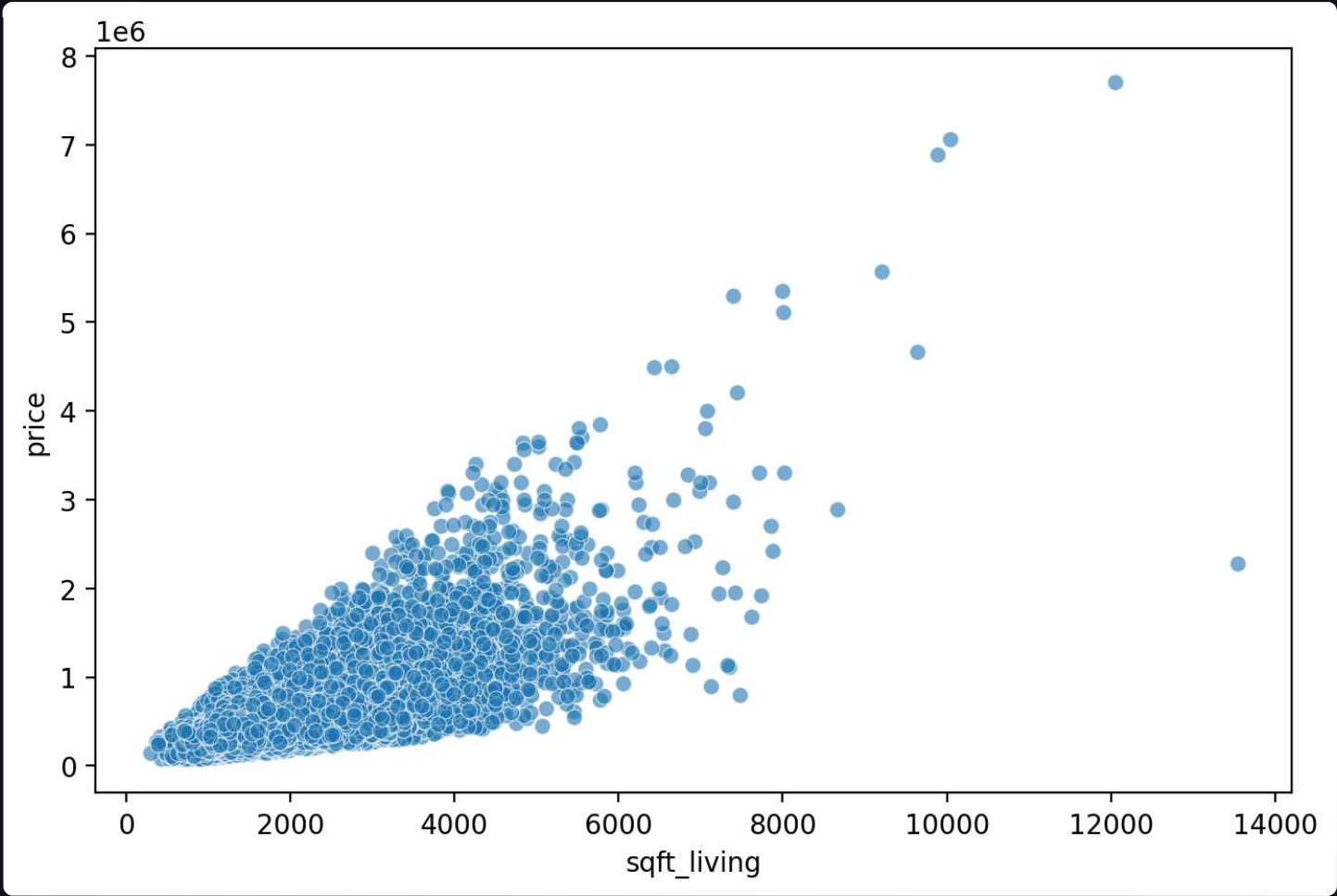
## Data Analysis & Visualization

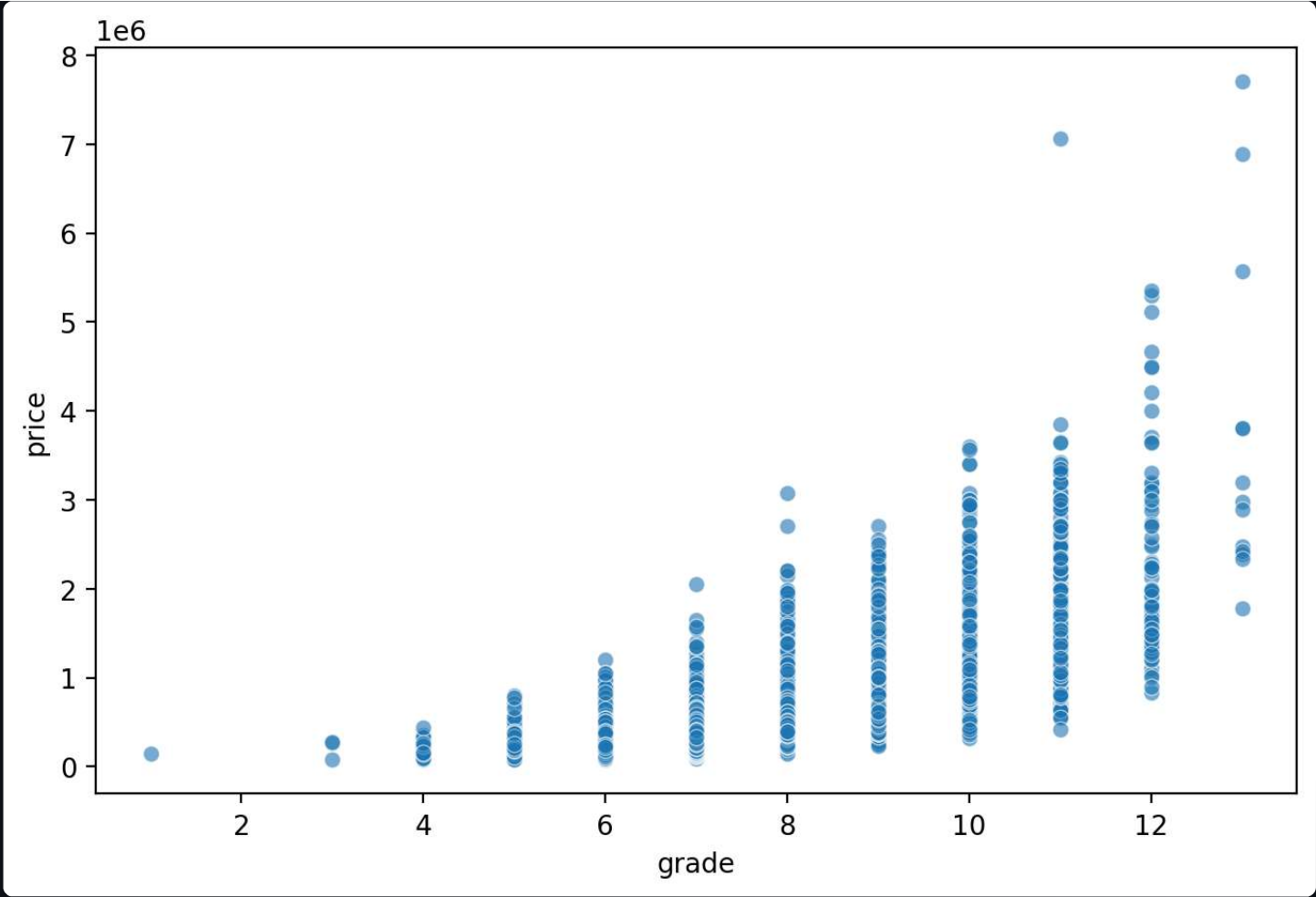
Correlation Heatmap

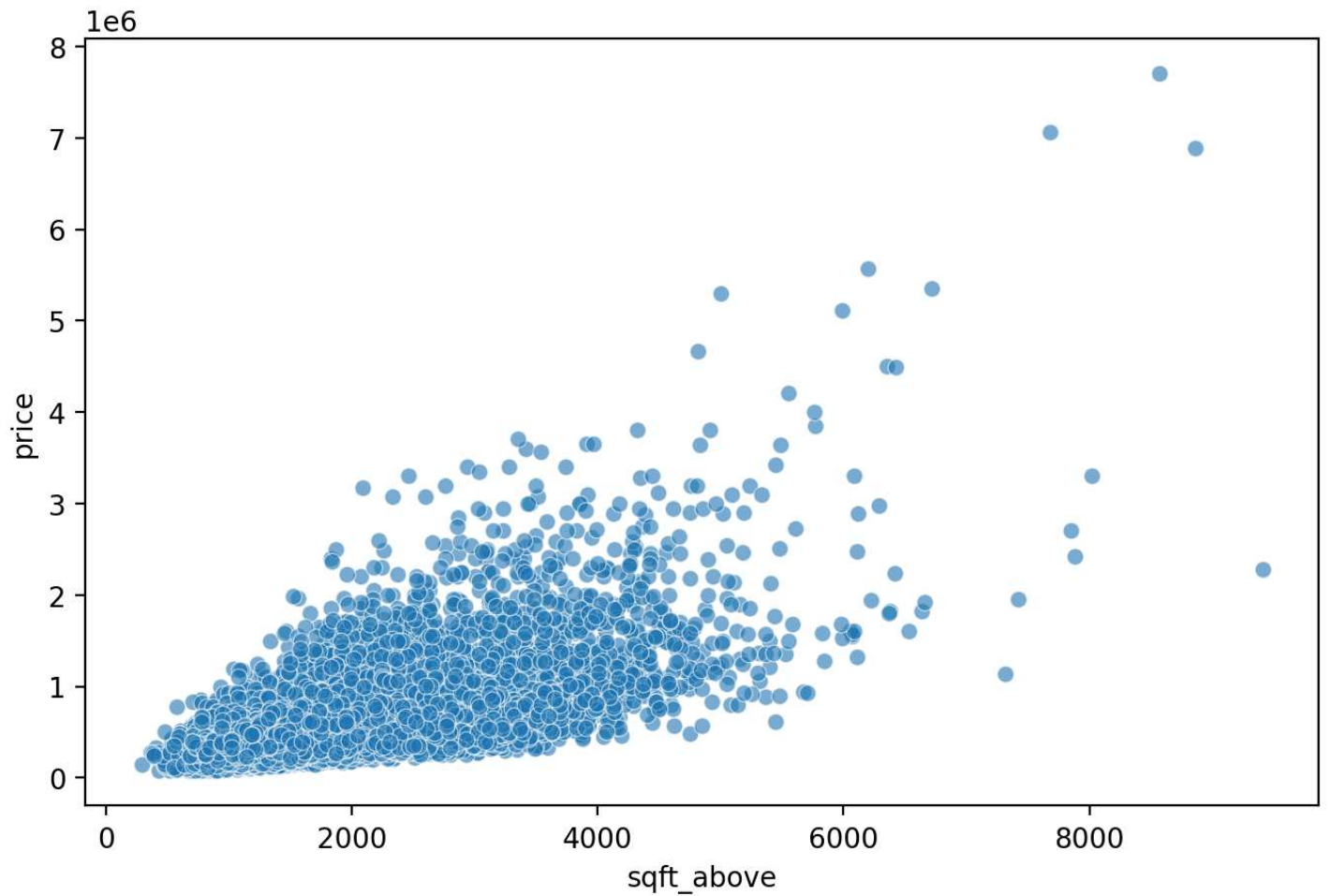
Distribution of price



🔵 Top Features vs price







### ⚙️ Model Training & Evaluation



MSE

45216641478.01

R<sup>2</sup> Score

0.70

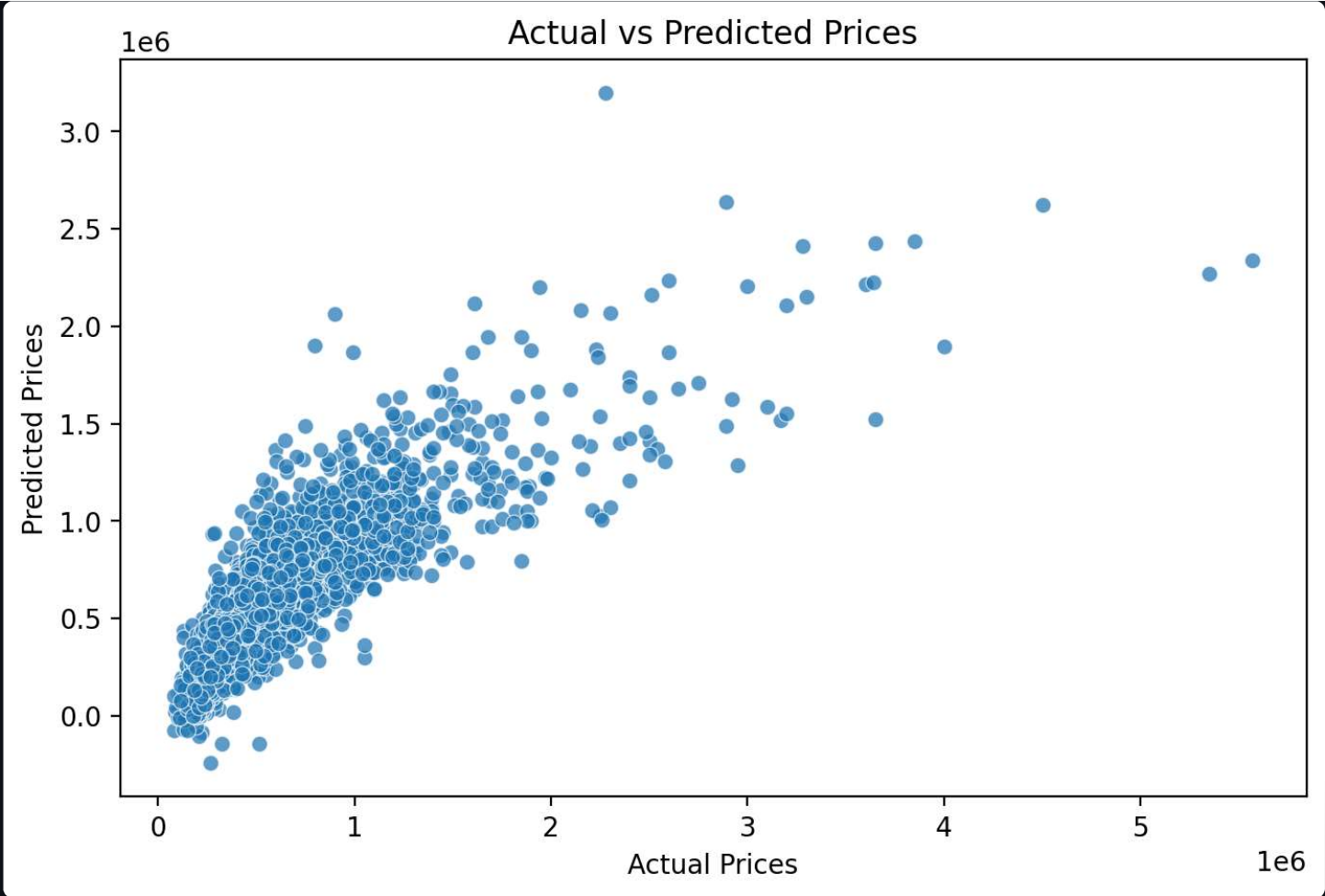


Features Used

19



Actual vs Predicted House Prices



## 🏠 Predict House Price

id	bedrooms	bathrooms
4580301520.86 - +	3.37 - +	2.11 - +
sqft_living	sqft_lot	floors
2079.90 - +	15106.97 - +	1.49 - +
waterfront	view	condition
0.01 - +	0.23 - +	3.41 - +
grade	sqft_above	sqft_basement
7.66 - +	1788.39 - +	291.51 - +
yr_built	yr_renovated	zipcode
1971.01 - +	84.40 - +	98077.94 - +
lat	long	sqft_living15
47.56 - +	-122.21 - +	1986.55 - +
sqft_lot15		
12768.46 - +		

💰 Predicted House Price: 539549.23

