

Dataset shape: (20640, 9)

	MedInc	HouseAge	AveRooms	AveBedrms	Population	AveOccup	Latitude	\
0	8.3252	41.0	6.984127	1.023810	322.0	2.555556	37.88	
1	8.3014	21.0	6.238137	0.971880	2401.0	2.109842	37.86	
2	7.2574	52.0	8.288136	1.073446	496.0	2.802260	37.85	
3	5.6431	52.0	5.817352	1.073059	558.0	2.547945	37.85	
4	3.8462	52.0	6.281853	1.081081	565.0	2.181467	37.85	

	Longitude	MedHouseVal
0	-122.23	4.526
1	-122.22	3.585
2	-122.24	3.521
3	-122.25	3.413
4	-122.25	3.422

--- Simple Linear Regression ---

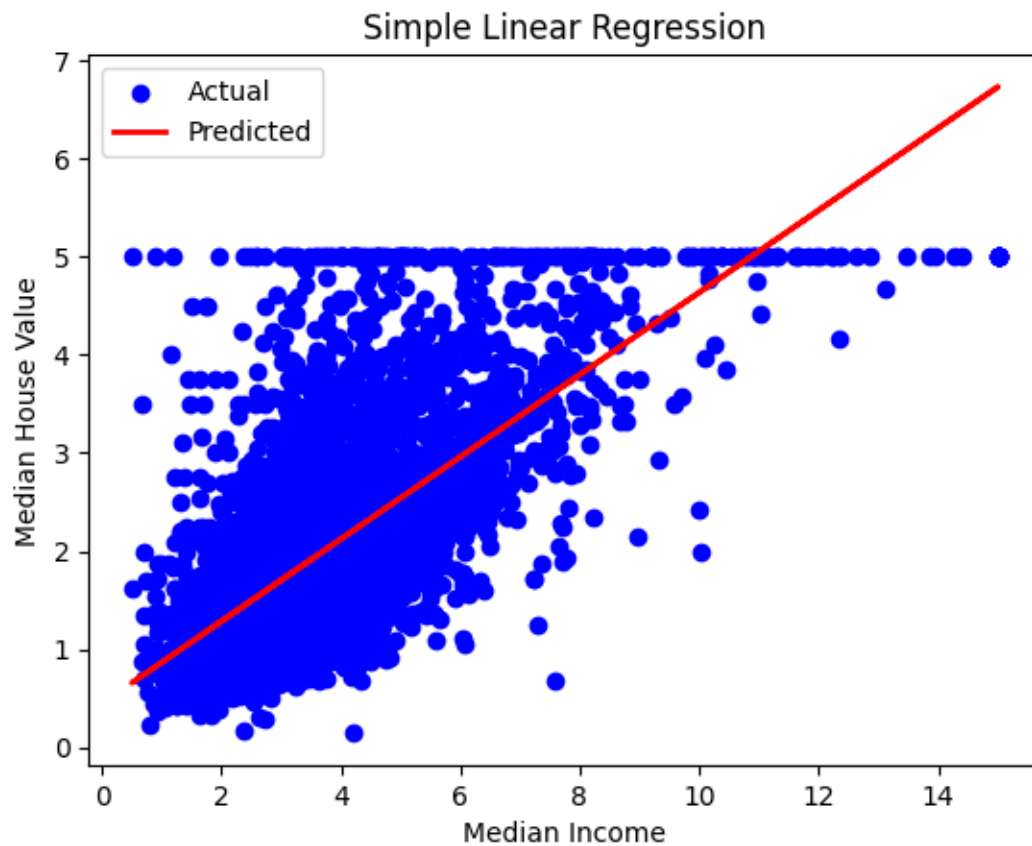
MAE: 0.629908653009376

MSE: 0.7091157771765549

R<sup>2</sup> Score: 0.45885918903846656

Coefficient (slope): 0.4193384939381271

Intercept: 0.4445972916907879



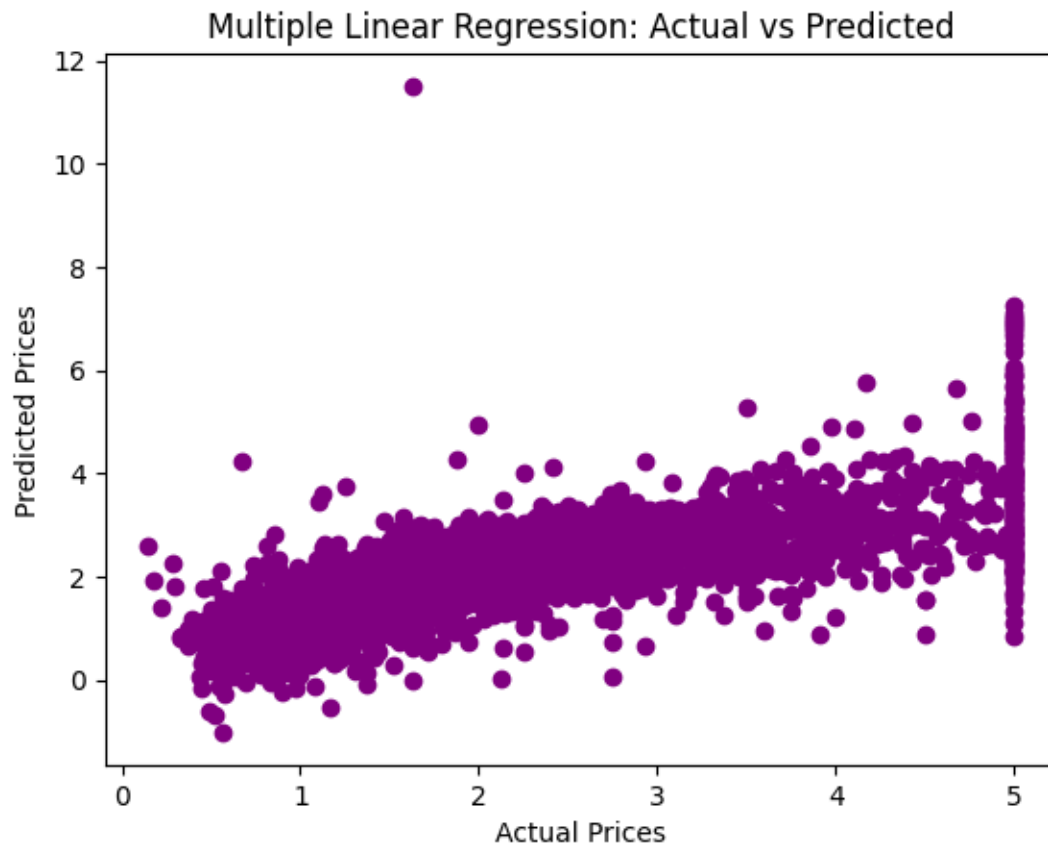
--- Multiple Linear Regression ---

MAE: 0.5332001304956553

MSE: 0.5558915986952444

R<sup>2</sup> Score: 0.5757877060324508

```
Coefficients: [ 4.48674910e-01  9.72425752e-03 -1.23323343e-01  7.83144907e-01  
-2.02962058e-06 -3.52631849e-03 -4.19792487e-01 -4.33708065e-01]  
Intercept: -37.02327770606409
```



--- Variance Inflation Factor (VIF) ---

	Feature	VIF
0	MedInc	11.511140
1	HouseAge	7.195917
2	AveRooms	45.993601
3	AveBedrms	43.590314
4	Population	2.935745
5	AveOccup	1.095243
6	Latitude	559.874071
7	Longitude	633.711654