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housedf.info() <class #="" 'pandas.core.fra="" (total="" 0="" 1="" 2="" 273.6+="" 3="" 4="" 5="" 5000="" 6="" 7="" address="" ag="" area="" avg.="" c="" column="" columns="" data="" dtypes:="" entrie="" float64(6),="" house="" housedf.describe()<="" income="" kb="" memory="" number="" obj="" of="" population="" price="" rangeindex:="" td="" usage:=""><td>es, 0 to 4999 columns): Non-Null 5000 non ge 5000 non of Rooms 5000 non 5000 non 5000 non 5000 non</td><td>-null float64 -null float64 -null float64 -null float64 -null float64 -null float64</td><td></td></class>	es, 0 to 4999 columns): Non-Null 5000 non ge 5000 non of Rooms 5000 non 5000 non 5000 non 5000 non	-null float64 -null float64 -null float64 -null float64 -null float64 -null float64	
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<pre>Index(['Avg. Area Incom</pre>	er of Bedrooms', 'Are	Age', 'Avg. Area Number a Population', 'Price',	r of Rooms', 'Address'],
100000 - 40000 - 60000 - 40000 - 20000 - 400000 - 400000 - 40000 - 40000 - 40000 - 40000 - 40000 - 40000 - 40000 - 400000 - 40000 - 40000 - 40000 - 40000 - 40000 - 40000 - 40000 - 40			
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2.5 - 2.0 - 1.5 - 1.0 - 2000040000 6000080000 Avg. Area Incom	e Avg. Area House	8 4 6 8 Age Avg. Area Number of Ro	10 2 3 4 5 6 0 20000 40000 60000 0 1 2 Price 1e6
<pre>'Avg. Area Numb y=housedf['Price'] from sklearn.model_sel</pre>	er of Bedrooms', 'Ard	test_split	Number of Rooms', e=0.40 , random_state=101)
X_train, X_test, y_tra	in, y_test=train_tes	t_split(X, y, train_size	e=0.40 , random_state=101)
1672 49775.405947 4557 75571.044023	5.305108 6.114928 4.858520 6.658346	6.178535 7.318214 7.758692 7.889948	Number of Bedrooms Area Population 2.24 23557.361654 4.44 33988.435859 3.08 24201.753077 3.01 44071.604628
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520	6.178535 7.318214 7.758692	2.24 23557.361654 4.44 33988.435859 3.08 24201.753077
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454	2.24 23557.361654 4.44 33988.435859 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726	2.24 23557.361654 4.44 33988.435859 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726	2.24 23957.361654 4.44 33898.435959 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544 4.33 56148.449322
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779 coefficient e 21.384444 e 162975.483408 s 121802.121132 s 1934.163056	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726	2.24 23957.361654 4.44 33898.435959 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544 4.33 56148.449322
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779 coefficient e 21.384444 e 162975.483408 s 121802.121132 s 1934.163056 n 15.189607 (X_test) rediction)	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726 ression	2.24 23957.361654 4.44 33898.435959 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544 4.33 56148.449322
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779 coefficient e 21.384444 e 162975.483408 s 121802.121132 s 1934.163056 n 15.189607 (X_test) rediction) 6.PathCollection at 0	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726 ression	2.24 23957.361654 4.44 33898.435959 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544 4.33 56148.449322
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779 coefficient e 21.384444 e 162975.483408 s 121802.121132 s 1934.163056 n 15.189607 (X_test) rediction) 6.PathCollection at 0 2.20 2	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726 **columns=['coefficient']) **columns=['coefficient']) **pression **columns=['coefficient'])	2.24 23957.361654 4.44 33898.435959 3.08 24201.753077 3.01 44071.604628 4.30 41686.518927 3.29 25494.740298 3.10 51614.830136 2.30 63184.613147 4.10 32725.279544 4.33 56148.449322
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779 Lr.coef_, X.columns, coefficient e 21.384444 e 162975.483408 s 121802.121132 s 1934.163056 n 15.189607 (X_test) displot (a figure- dirucelyning) cice', ylabel='Densit	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726 **Coefficient']) **Columns=['coefficient']) **Columns=['coefficient']) **Automatical straight and st	2.22 28057.091054 4.44 30908.450508 3.00 2803.153077 3.01 4607.154028 4.30 41058.518027
Avg. Area Income Avg. 1672	5.305108 6.114928 4.858520 6.658346 5.712999 4.846832 6.548274 3.735942 5.935261 7.644779 coefficient e 21.384444 e 162975.483408 s 121802.121132 s 1934.163056 n 15.189607 (X_test) ediction) s.PathCollection at 0 3\lib\site-packages\displot (afgure-ture-waring) ice', ylabel='Densit' mport mean_squared_e or(y_test, ylabel='Densit') cror:', mse) :',r_square)	6.178535 7.318214 7.758692 7.889948 6.673142 7.558137 6.539986 6.868291 5.913454 8.440726 **Coolumns=['coefficient']) **Columns=['coefficient']) **Columns=['coefficient']) **Columns=['coefficient']) **Columns=['coefficient'])	2.22 28057.091054 4.44 30908.450508 3.00 2803.153077 3.01 4607.154028 4.30 41058.518027