Mathematical Content	<pre>import pandas a import numpy as import matplotl import seaborn from sklearn.me from sklearn.me from sklearn.me</pre>	s np lib.pyplot a as sns etrics impor inear_model odel_selecti	rt mean_s import L ion impor	inearReg t train_	ression test_sp	n, Lass			GridSea	rchCV													
	<pre>from sklearn.er  df_train =pd.re df_test = pd.re</pre>	ead_csv(r'C	<pre>ort Rando :\Users\D</pre>	omForestR Oell\Down	egresso	house-p	rices-	advanced-	regressi														
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######################################	<pre>df_train[num_va X = df_train[nu X_train, X_test  : lr_dirty.fit(X_y_pred_dirty=lr print("R2: ", ]  #measuring the rmse_dirty = MS print("RMSE: ",  R2: 0.838302255 RMSE: 28428.228  : y_pred_dirty[:5]  : array([[241294 [311350]</pre>	ariables]=dim_variables im_variables c, y_train,  _train,y_tra c_dirty.pred lr_dirty.sco  RMSE of the SE(y_test, y rmse_dirty 2851169 6670478686 5] .46179002], .80191562],	<pre>f_train[n s]   y_test = ain) dict(X_te ore(X_tes e model y_pred_di y))</pre>	um_varia train_t est) st,y_test	bles].f	fillna(	(0)	est_size=0	0.3, rand	om_state=s	eed)												
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	For a guide to unhttps://gist.gittsns.distplot(()	pdating you hub.com/mwa y_test-y_pr 'Density'>	ur code t askom/de4 red_dirty	o use th 4147ed29	e new f 74457ad	functio	ns, pl	ease see	ms).														
0 1461 121637.507765  1 1462 151546.691299  2 1463 170589.501248  3 1464 200427.659711  4 1465 192851.842864  : output.to_csv('submission.csv', index=False) output.head()	df_test[num_var <class #="" #creating="" 'pandas.c="" (to="" 0="" 1="" 11="" 12="" 13="" 14="" 1459="" 15="" 16="" 17="" 18="" 19="" 1stflrsf="" 2="" 20="" 21="" 22="" 23="" 24="" 25="" 26="" 27="" 28="" 29="" 2ndflrsf="" 3="" 30="" 31="" 32="" 33="" 34="" 35="" 3ssnporch="" 4="" 41="" 5="" 6="" 7="" 8="" 9="" a="" bedroomabvg="" bsmtfinsf1="" bsmtfullbath="" bsmthalfbath="" bsmtunfsf="" column="" columns="" dat="" data="" dtypes:="" enclosedpor="" fireplaces="" float64(="" fullbath="" garagearea="" garagecars="" garageyrblt="" grlivarea="" halfbath="" kitchenabvg="" lotarea="" lotfrontage="" lowqualfins="" masvnrarea="" memory="" miscval="" mosold="" mssubclass="" openporchsf="" output_pred="1&lt;/td" overallcond="" overallqual="" poolarea="" rangeindex:="" screenporch="" totalbsmtsf="" totrmsabvgr="" usage:="" wooddecksf="" yearbuilt="" yearremodad="" yrsold=""><td>riables].inf core.frame.C entries, 6 entries, 7 entries</td><td>fo()  DataFrame 0 to 1458  umns): 11 Count on-null on-null</td><td>Dtype int64 float64 int64 int64 int64 int64 float64 float64 float64 int64 int64</td><td>_variat</td><td>bles]).</td><td></td><td></td><td>predictio</td><td>ns.flatten</td><td>() to make</td><td>e it a</td><td>1D ar</td><td>ray</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></class>	riables].inf core.frame.C entries, 6 entries, 7 entries	fo()  DataFrame 0 to 1458  umns): 11 Count on-null	Dtype int64 float64 int64 int64 int64 int64 float64 float64 float64 int64	_variat	bles]).			predictio	ns.flatten	() to make	e it a	1D ar	ray									
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