



## Graded Assignment 5

he due date for submitting this assignment has passed. ue on 2024-03-03, 23:59 IST.	
ou may submit any number of times before the due date. The final submission will be considered for grading.	
ou have last submitted on: 2024-03-03, 23:31 IST	
Vrite a code to predict the house price of California Housing dataset using GridSearchCV.	
Vrite your code based on the following keypoints:	
plit the California housing dataset into train and test set with 70:30 ratio with  1 random_state = 1	
mport StandardScaler for scaling X_train and X_test to X_train_norm and X_test_norm  1 with_mean = True	
and	
1 with_std = True	
mport SGDRegressor with	
1 random_state = 1	
Pass SGDRegressor through GridSearchCV	
lyperparamter tuning to be done over	
1 less	
loss as 'squared_error' or 'huber'	
1 penalty	
as '11' or '12'	
1 alpha	
as 0.1, 0.01, 0.001	
naximum number of passes as [1000,2000,5000]	
Cross Validation = 4  Train the 'model' and compute the 'score' on test data	
Enter the value of the 'score'. (Enter your answer in four decimal places)  0.6187	
No, the answer is incorrect.  Score: 0	
Accepted Answers:	
(Type: Range) 0.589,0.599	1 point
2) Enter the value of the best alpha obtained.	
0.01	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
(Type: Numeric) 0.01	1 point
	,
3) Enter the value of the best maximum number of passes obtained.	
1000	
Yes, the answer is correct.	
Score: 1	
Accepted Answers:	
(Type: Numeric) 1000	d1-A
	1 point
Vrite a code to predict the house price of California Housing dataset using GridSearchCV.	
Vrite your code based on the following keypoints:	

Split the California housing dataset into train and test set with 70:30 ratio with

Import StandardScaler for scaling X\_train and X\_test to X\_train\_norm and X\_test\_norm

1 random\_state = 1

1 with\_mean = True

and	
1 with_std = True	
Pass Ridge Regression Model through GridSearchCV Hyperparamter tuning to be done over	
1 alpha	
as 0.5,0.1,0.05,0.01,0.005,0.001	
With or without intercept	
Cross Validation = 4 Train the 'model' and compute the 'score' on test data	
4) Enter the value of the 'score'. (Enter your answer in four decimal places)	
0.6047	
No, the answer is incorrect.  Score: 0	
Accepted Answers:	
(Type: Range) 0.5970,0.5980	1 point
5) Enter the value of the best alpha obtained.	
0.5	
Yes, the answer is correct.  Score: 1	
Accepted Anguage	
Accepted Answers:	
(Type: Numeric) 0.5	1 point
Write a code to predict the house price of California Housing dataset using GridSearchCV.	
Write your code based on the following keypoints:	
Split the California housing dataset into train and test set with 60:40 ratio with	
random_state = 1	
Import StandardScaler for scaling X_train and X_test to X_train_norm and X_test_norm	
1 with mean = True	
and	
<pre>with_std = True</pre>	
Pass Lasso Model through GridSearchCV	
Hyperparamter tuning to be done over	
1 alpha as 0.5,0.1,0.05,0.01,0.005,0.001	
as 0.5,0.1,0.05,0.01,0.005,0.001  With or without intercept	
Cross Validation = 6	
Train the 'model' and compute the 'score' on test data	
6) Which of the following is the 'score' computed by your code?	1 point
◎ 0.60	
0.65	
0.81	
0.74	
Yes, the answer is correct.	
Score: 1	
Accepted Answers:	
0.60	
7) Enter the value of the best alpha obtained.	
0.005	
Yes, the answer is correct.	
Score: 1	
Accepted Answers:	
(Type: Range) 0.001,0.005	

1 point