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Implementing LASSO using coordinate descent

8 试题

1.
From the section "Effect of L1 penalty": Consider the simple model
with 2 features trained on the entire sales dataset.
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Which of the following values of l1_penalty <u>would not</u> set w[1] zero, but <u>would</u> set w[2] to zero, if we were to take a coordinate gradient step in that coordinate? (Select all that apply)

1.4e8
1.64e8
1.73e8
1.9e8
2.3e8

2.

Refer to the same model as the previous question.

Which of the following values of l1_penalty would set <u>both</u> w[1] and w[2] to zero, if we were to take a coordinate gradient step in that coordinate? (Select all that apply)

	1.4e8
	1.64e8
П	1 73e8

Ш	1.9e8
	2.3e8
3.	
	the section "Cyclical coordinate descent": Using the simple mode
-	features), we run our implementation of LASSO coordinate on the <u>normalized</u> sales dataset. We apply an L1 penalty of
	d tolerance of 1.0.
	of the following ranges contains the RSS of the learned model normalized dataset?
0	Between 8e13 and 2e14
0	Between 2e14 and 5e14
0	Between 5e14 and 8e14
0	Between 8e14 and 1e15
0	Between 1e15 and 3e15
4.	
Refer t	to the same model as the previous question.
	of the following features were assigned a zero weight at rgence?
0	constant
0	sqft_living
0	bedrooms

5.

In the section "Evaluating LASSO fit with more features", we split the data into training and test sets and learn weights with varying degree of L1 penalties. The model now has 13 features.

	model trained with l1_penalty=1e7, which of the following es has non-zero weight? (Select all that apply)
	constant
	sqft_living
	grade
	waterfront
	sqft_basement
	uestion refers to the same model as the previous question.
	model trained with l1_penalty=1e8, which of the following es has non-zero weight? (Select all that apply)
	constant
	sqft_living
	grade
	waterfront
	sqft_basement
In the	uestion refers to the same model as the previous question. model trained with I1_penalty=1e4, which of the following es has non-zero weight? (Select all that apply)
	constant
	sqft_living
	grade grade
	waterfront

	sqft_basement
8. In tha	costion "Evaluating each of the learned models on the test data"
	section "Evaluating each of the learned models on the test data", aluate three models on the test data. The three models were
	d with same set of features but different L1 penalties.
Which	of the three models gives the lowest RSS on the TEST data?
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O	The model trained with 1e4
0	The model trained with 1e7
0	The model trained with 1e8
	提交测试





