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Nearest Neighbors & Kernel Regression

7 试题

	of the following datasets is best suited to nearest neighbor or regression? Choose all that apply.					
	A dataset with many features					
	A dataset with two features whose observations are evenly scattered throughout the input space					
	A dataset with many observations					
	A dataset with only a few observations					
	of the following is the most significant advantage of k-nearest or regression (for k>1) over 1-nearest neighbor regression? Removes discontinuities in the fit					
0	Better handles boundaries and regions with few observations					
0	Better copes with noise in the data					
	ain a fit with low variance using kernel regression, we should the kernel to have:					
\bigcirc	Small bandwidth λ					

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0	Large bandwidth λ
	earest neighbor regression and kernel regression, the complexity ctions that can be represented grows as we get more data. True False
	Taise
to the	etric regression and 1-nearest neighbor regression will converge same solution as we collect more and more noiseless ations.
0	True
0	False
Every to house, using datased between micross fetchir	se you are creating a website to help shoppers pick houses. time a user of your website visits the webpage for a specific, you want to compute a prediction of the house value. You are 1-NN to make the prediction and have 100,000 houses in the et, with each house having 100 features. Computing the distance en two houses using all the features takes about 10 seconds. Assuming the cost of all other operations involved (e.g., and data, etc.) is negligible, about how long will it take to make a tion using the brute-force method described in the videos?
0	10 milliseconds
0	100 milliseconds
\circ	1 second

7.

10 seconds

For the housing website described in the previous question, you learn that you need predictions within 50 milliseconds. To accomplish this, you decide to reduce the number of features in your nearest neighbor comparisons. How many features can you use?

O	1 feature			
0	5 features			
0	10 features			
0	20 features			
0	50 features			
正在提	交			
		提交测试		





