/	What is/are advantage(s) of Locally Weighted Regression? *	1/1
0	(A) Pointwise approximation of complex target function	
0	(B) Earlier data has no influence on the new ones	
•	(C) Both A & B	✓
0	(D) none of these	
/	The quality of the result depends on (LWR) *	1/1
0	Choice of the function	
0	Choice of the kernel function K	
0	Choice of the hypothesis space H	
0	All of these	✓

Algorithm step used by locally weighted regression. *	1/1
1. Given training data D= $\{xi,yi\}$, Kernel function $K(\cdot,\cdot)$ and input x	
2.Fit weighted regression w^(x)=argminw∑ni=1K(x,xi)(w⊤xi−yi)2	
\bigcirc 3.Return regression prediction w^(x) \top x.	
4.Fit weighted logistic regression w^(x)=argminw∑ni=1K(x,xi)log(1+exp{-yiw⊤xi	})
\bigcirc 5.Return logistic regression prediction sign(w $^{\wedge}$ (x) $^{\top}$ x).	
step 1 ,2, and 3	✓
step 1,4 and 5	
step 1,2,4,and 5	
all the 5 step need	
True-False: Is Logistic regression a supervised machine learning algorithm?	1/1
True	✓
False	

✓	What is "K" in KNN algorithm? *	1/1
0	K = Number of nearest neighbors you want to select to train the class of a given in	item
0	K = Number of nearest neighbors you want to select to test the class of a given it	tem
0	K = Number of nearest neighbors you want to select to cluster the class of a give item	n
•	K = Number of nearest neighbors you want to select to predict the class of a given item	✓
✓	Disadvantages of KNN *	1/1
0	Does not work well with large dataset:	
0	Does not work well with high dimensions:	
0	Need feature scaling	
0	Sensitive to noisy data, missing values and outliers	
•	all the above	✓

How do we decide the value of "K" in KNN algorithm? *	1/1
1.K should be the square root of n .	
2 K should be odd so that there are no ties. If square root is even, then add or subtract 1 to it.	
3.1 and 4	
4. K should be even so that there are no ties.	
① 1 and 2	✓
✓ Which of the following distance measure do we use in case of categorical variables in k-NN? 1. Hamming Distance 2. Euclidean Distance 3. Manhattan Distance *	1/1 ace
1	✓
O 2	
○ 3	
1 and 2	
2 and 3	
1,2 and 3	

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