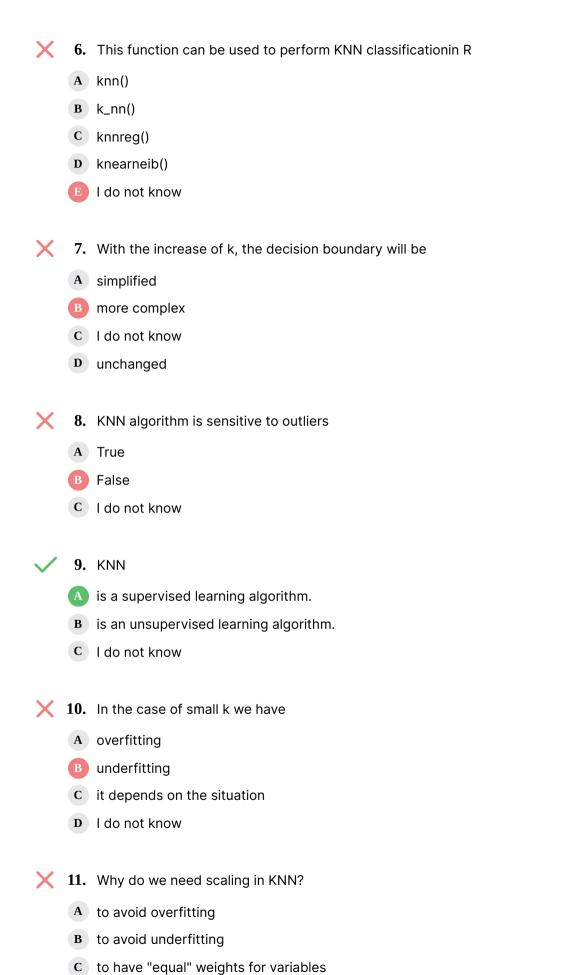


## DM-Spring-2020-Q6-Grade

42.11% (8/19)

- **/** 
  - 1. KNN is
  - A data-driven method
  - B model-driven method
  - C I do not know
- 2. The dependent variable of the classification is
  - A categorical
  - B numeric
  - C I do not know
- 3. KNN can be used for regression
  - A Yes
  - B No
  - C I do not know
- X 4. In the case of KNN classification we use
  - A average of outcomes
  - B majority voting scheme
  - I do not know
- ✓ 5. Which of these errors will increase constantly by increasing k?
  - A train error
  - B test error
  - c both
  - **D** I do not know



I do not know

<b>/</b>	12.	Let k = n, (n- number of observations), K-NN is same as
	A	random guessing
	В	everything will be classified as the most probable class (in total)
	C	everything will be classified as the least probable class (in total)
	D	I do not know
X	13.	This function can be used to perform K-NN regression in R
	A	knn.reg
	В	knnforreg
	C	regknn
	D	knnforregression
	E	I do not know
X	14.	Do you need to worry about scaling with one explanatory variable?
	A	No
	В	Yes
	C	I do not know
X	<b>15.</b>	$\mbox{\ensuremath{n}}$ - the number of explanatory variables When $\mbox{\ensuremath{n}}=\mbox{\ensuremath{n}}$ , the decision boundary for regression is
	A	a line
	В	a stepwise constant function
	C	a stepwise quadratic function
	D	I do not know
<b>/</b>	<b>16.</b>	Which of these algorithms can be used to fill the missing values
	A	KNN for regression
	В	KNN for classification
	C	both
	D	I do not know

<b>/</b>	17.	Which one is better: KNN regression or Linear regression?
	A	KNN outperform LR if the parametric form that has been selected is close to the true linear form
	В	LR outperform KNN if the parametric form that has been selected is close to the true linear form
	C	KNN will always outperform the LR
	D	I do not know
<b>/</b>	18.	Which one is the Disadvantage of KNN?
	A	required assumptions
	В	cannot be applied for regression
	$\mathbf{C}$	difficult to perform
	D	the problem of high dimensional data
	E	I do not know
X	19.	The best k for train set equals to
	A	1
	В	2
	C	0
	D	I do not know