

## DM-Quiz-2020-Q6

57.89% (11/19)

- X 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
- 4. In the case of KNN classification we use
  - A average of outcomes
  - majority voting scheme
  - C I do not know
- X 5. Which of these errors will increase constantly by increasing k?
  - A train error
  - B test error
  - **c** both
  - **D** I do not know

X	6.	This function can be used to perform KNN classificationin R
	Α	knn()
	В	k_nn()
	C	knnreg()
	D	knearneib()
	E	I do not know
<b>/</b>	7.	With the increase of k, the decision boundary will be
	A	simplified
	В	more complex
	C	I do not know
	D	unchanged
<b>/</b>	8.	KNN algorithm is sensitive to outliers
	A	True
	В	False
	C	I do not know
	_	
<b>/</b>	9.	KNN
	A	is a supervised learning algorithm.
	В	is an unsupervised learning algorithm.
	С	I do not know
	10.	In the case of small level have
	10.	In the case of small k we have
	A	overfitting
	В	underfitting it depends on the situation
	D	
	<b>D</b>	T do not know
<b>/</b>	11.	Why do we need scaling in KNN?
	A	to avoid overfitting
	В	to avoid underfitting
	C	to have "equal" weights for variables
	D	I do not know

X 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
× 13.	This function can be used to perform K-NN regression in R
Α	knn.reg
В	knnforreg
C	regknn
D	knnforregression
E	I do not know
<b>√</b> 14.	Do you need to worry about scaling with one explanatory variable?
A	No
В	Yes
С	I do not know
<b>X</b> 15.	n - the number of observation, m - the number of explanatory variables When n=k, m=1, 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>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

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