

## DM-Quiz-2020-Q6

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- 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
- X 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
  - 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
	A	knn()
	В	k_nn()
	C	knnreg()
	D	knearneib()
	E	I do not know
X	7.	With the increase of k, the decision boundary will be
	A	simplified
	В	more complex
	C	I do not know
	D	unchanged
X	8.	KNN algorithm is sensitive to outliers
	A	True
	В	False
	C	I do not know
X	9.	KNN
	A	is a supervised learning algorithm.
	В	is an unsupervised learning algorithm.
	C	I do not know
X	10.	In the case of small k we have
	Α	overfitting
	В	underfitting
	C	it depends on the situation
	D	I do not know
X	11.	Why do we need scaling in KNN?
	A	to avoid overfitting

**B** to avoid underfitting

**D** I do not know

c to have "equal" weights for variables

X	12.	Let k = n, (n- number of observations), K-NN is same as
	Α	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
	Α	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	15.	$\mbox{\ensuremath{n}}$ - the number of explanatory variables When $\mbox{\ensuremath{n}}=\mbox{\ensuremath{k}},$ m=1, the decision boundary for regression is
	Α	a line
	В	a stepwise constant function
	C	a stepwise quadratic function
	D	I do not know
X	16.	Which of these algorithms can be used to fill the missing values
	Α	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?
	Α	required assumptions
	В	cannot be applied for regression
	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