

DM-Quiz-2020-Q6

19 Questions

- 1. KNN is
- 4/11 A data-driven method
- 6/11 **B** model-driven method
- 1/11 C I do not know
 - 2. The dependent variable of the classification is
- 8/11 A categorical
- 3/11 B numeric
- 0/11 C I do not know
 - 3. KNN can be used for regression
- 9/11 A Yes
- **1/11 B** No
- 1/11 C I do not know
 - 4. In the case of KNN classification we use
- 4/11 A average of outcomes
- 7/11 B majority voting scheme
- 0/11 C I do not know
 - 5. Which of these errors will increase constantly by increasing k?
- 1/11 A train error
- 3/11 B test error
- 6/11 **C** both
- 1/11 D I do not know

6.	. Th	is function can be used to perform KNN classificationin R		
4/11	A	knn()		
1/11	В	k_nn()		
4/11	C	knnreg()		
1/11	D	knearneib()		
1/11	E	I do not know		
7. With the increase of k, the decision boundary will be				
3/11	A	simplified		
7/11	В	more complex		
0/11	C	I do not know		
1/11	D	unchanged		
8. KNN algorithm is sensitive to outliers				
6/11	A	True		
5/11	В	False		
0/11	C	I do not know		
9.	. KN	N .		
8/11	A	is a supervised learning algorithm.		
3/11	В	is an unsupervised learning algorithm.		
0/11	C	I do not know		
10. In the case of small k we have				
2/11	A	overfitting		
7/11	В	underfitting		
2/11	C	it depends on the situation		

0/11 D I do not know

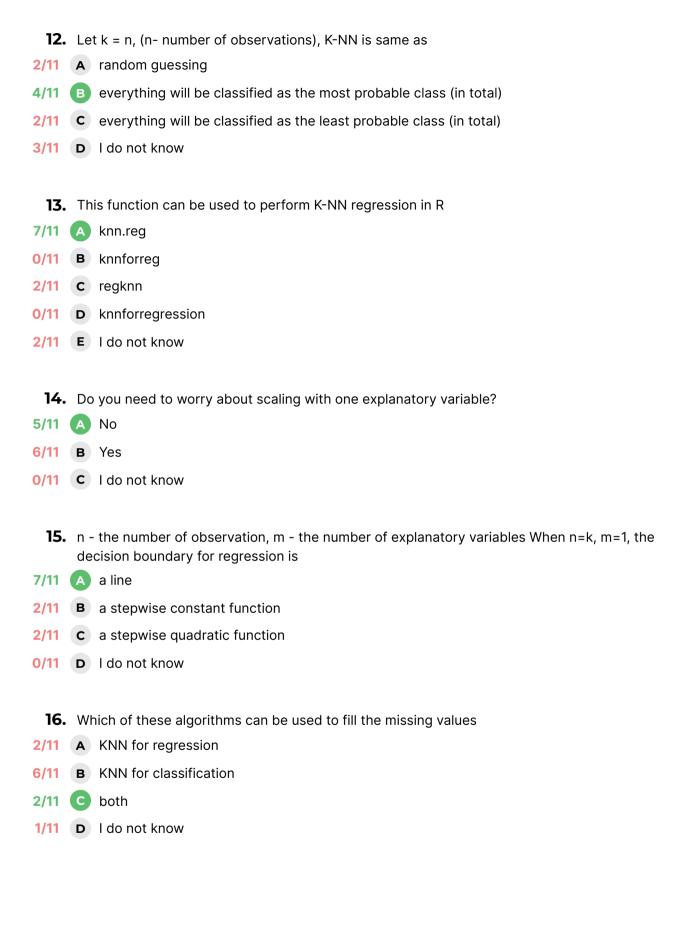
4/11 A to avoid overfitting

3/11 **B** to avoid underfitting

1/11 D I do not know

11. Why do we need scaling in KNN?

3/11 c to have "equal" weights for variables



17.	Wr	nich one is better: KNN regression or Linear regression?
8/11	A	\ensuremath{KNN} outperform LR if the parametric form that has been selected is close to the true form of \ensuremath{f}
1/11	В	LR outperform KNN if the parametric form that has been selected is close to the true form of \ensuremath{f}
0/11	C	KNN will always outperform the LR

- **18.** Which one is the Disadvantage of KNN?
- 3/11 A required assumptions
- 1/11 **B** cannot be applied for regression
- 0/11 c difficult to perform
- 7/11 D the problem of high dimensional data
- 0/11 E I do not know

2/11 D I do not know

- **19.** The best k for train set equals to
- 4/12 A 1
- **6/12 B** 2
- **0/12 C** 0
- 2/12 D I do not know