Machine learning Quiz

* Required 1. Enter Your Name * 2. Enter your roll Number * Enter your Mobile No. * 3. Q1. Which one is the correct Linear regression assumption? * Mark only one oval. Linear regression assumes the input and output variables are not noisy. Linear regression will over-fit your data when you have highly correlated input variables. The residuals (true target value – predicted target value) of the data are normally distributed and independent from each other All of the above Q2. Which of the following is a true statement for regression methods the in case of feature selection? Mark only one oval. Ridge regression uses subset selection of features Lasso regression uses subset selection of features Both use subset selection of features None of above

6.	Q3. Which of the following evaluation metrics can not be applied in case of logistic regression output to compare with target?	*
	Mark only one oval.	
	AUC-ROC	
	Accuracy	
	Logloss	
	Mean-Squared-Error	
7.	Q4. What's the hypothesis of logistic regression? *	
	Mark only one oval.	
	to limit the cost function between 0 and 1	
	to limit the cost function between -1 and 1	
	to limit the cost function between -infinity and +infinity	
	to limit the cost function between 0 and +infinity	
8.	Q5. When performing regression or classification, which of the following is the correct way to preprocess the data?	*
	Mark only one oval.	
	\bigcirc Normalize the data \rightarrow PCA \rightarrow training	
	PCA → normalize PCA output → training	
	None of the above	

9.	Q6. In the silhouette score method which point would be the most appropriate number of clusters for the K-means clustering algorithm?	*
	Mark only one oval.	
	Global minimum	
	Global maximum	
	Both of the above points	
	None of the above	
10.	Q7. Is it possible that Assignment of observations to clusters does not change between	*
	successive iterations in K-Means	
	Mark only one oval.	
	Yes	
	○ No	
	Can't say	
	None of these	
11.	Q8. What is the advantage of hierarchical clustering over K-means clustering? *	
	Mark only one oval.	
	Hierarchical clustering is computationally faster than K-means clustering.	
	None of the above.	
	There is no difference. Both are equally proficient.	
	You don't have to assign the number of clusters from the beginning in the case of hierarchical clustering.	

12.	Q9. F1 score is: *
	Mark only one oval.
	absolute mean of precision and recall
	harmonic mean of precision and recall
	squared mean of precision and recall
	None of the above
13.	Q10. In SVM, we are looking to maximize the margin between the data points and the *hyperplane. The loss function that helps maximize the margin is called:
	Mark only one oval.
	hinge loss
	Log loss
	Mean square error
	None of the above
14.	Q11. The SVM's are less effective when: *
	Mark only one oval.
	The data is linearly separable
	The data is clean and ready to use
	The data is noisy and contains overlapping points
	None of the above

15.	Q12. A company has build a kNN classifier that gets 100% accuracy on training data. When they deployed this model on client side it has been found that the model is not at all accurate. Which of the following thing might gone wrong?	*
	Mark only one oval.	
	It is probably a overfitted model	
	It is probably a underfitted model	
	Can't say	
	None of these	
16.	Q13. Which of the following is true about Naive Bayes?*	
	Mark only one oval.	
	assumes that all the features in a dataset are independent	
	assumes that all the features in a dataset are dependent	
17.	Q14.What is the biggest weakness of decision trees compared to logistic regression classifiers?	*
	Mark only one oval.	
	Decision trees are more likely to overfit the data	
	Decision trees are more likely to underfit the data	
	Decision trees do not assume independence of the input features	
	None of the mentioned	

18.	Q15. Which of the following is/are true about bagging trees?	*
	1.In bagging trees, individual trees are independent of each other.2.Bagging is the method for improving the performance by aggregating the results of weak learners	
	Mark only one oval.	
	\bigcirc 2	
	1 and 2	
	None of the above	
19.	Q16. Which of the following is/are true about boosting trees?	*
	1. In boosting trees, individual weak learners are independent of each other.	
	2.It is the method for improving the performance by aggregating the results of weak learners	
	Mark only one oval.	
	\bigcirc 2	
	1 and 2	
	None of the above	
20.	Q17. In Random forest you can generate hundreds of trees (say T1, T2Tn) and then aggregate the results of these tree. Which of the following is true about individual(Tk) tree in Random Forest?	ı *
	Mark only one oval.	
	Individual tree is built on a subset of the features	
	Individual tree is built on a subset of observations(samples)	
	Both	
	None of the above	

21.	Q18. An itemset whose support is greater than or equal to a minimum support threshold is:	*
	Mark only one oval.	
	Itemset	
	Frequent Itemset	
	Infrequent items	
	Threshold values	
22.	Q19. Suppose, your target variable is whether a passenger will survived or not using	*
	Decision Tree. What type of tree do you need to predict the target variable?	
	Mark only one oval.	
	classification tree	
	regression tree	
	clustering tree	
	None of the above	
23.	Q20. Gradient Descent is an optimization algorithm used for: *	
	Mark only one oval.	
	Certain Changes in algorithm	
	minimizing the cost function in various machine learning algorithms	
	maximizing the cost function in various machine learning algorithms	
	remaining same the cost function in various machine learning algorithms	

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