MACHINE LEARNING

In Q1 to Q11, only one option is correct, choose the correct option:

1. Which of the following me Regression?	thods do we u	se to find the best fit line for data in Linear	
A) Least Square Error	B) Max	kimum Likelihood	
C) Logarithmic Loss	D) Both A and B		
Ans→ A) Least Square Error			
2. Which of the following star	tement is true	about outliers in linear regression?	
A) Linear regression is sensitive to outliers		B) linear regression is not sensitive to outliers	
C) Can't say		D) none of these	
Ans→ A) Linear regression is sensitive to outliers			
3. A line falls from left to right if a slope is?			
A) Positive	B) Negative		
C) Zero	D) Undefined		
Ans → B) Negative			
4. Which of the following will have symmetric relation between dependent variable and independent			
variable?			
A) Regression	B) Correlation		
C) Both of them	D) None of the	ese	
Ans → B) Correlation			
5. Which of the following is the	he reason for o	over fitting condition?	
A) High bias and high variance		B) Low bias and low variance	
C) Low bias and high variance		D) none of these	
Ans→ D) none of these			

6. If output involves lab	pel then that model is called as:
A) Descriptive model	B) Predictive modal
C) Reinforcement learn	ing D) All of the above
Ans→ B) Predictive mo	dal
7. Lasso and Ridge regr	ession techniques belong to?
A) Cross validation	B) Removing outliers
C) SMOTE	D) Regularization
Ans→ D) Regularization	า
8. To overcome with im	balance dataset which technique can be used?
A) Cross validation	B) Regularization
C) Kernel	D) SMOTE
Ans→ A) Cross validation	on
9. The AUC Receiver Op	perator Characteristic (AUCROC) curve is an evaluation metric for binary
classification problems	. It uses to make graph?
A) TPR and FPR	B) Sensitivity and precision
C) Sensitivity and Speci	ficity D) Recall and precision
Ans→ C) Sensitivity an	d Specificity
10. In AUC Receiver Op the curve should be les	erator Characteristic (AUCROC) curve for the better model area under s.
A) True	B) False
Ans→ A) True	

- 11. Pick the feature extraction from below:
- A) Construction bag of words from a email
- B) Apply PCA to project high dimensional data
- C) Removing stop words
- D) Forward selection

Ans → B) Apply PCA to project high dimensional data

In Q12, more than one options are correct, choose all the correct options:

- 12. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?
- A) We don't have to choose the learning rate.
- B) It becomes slow when number of features is very large.
- C) We need to iterate.
- D) It does not make use of dependent variable.

Ans \rightarrow D) It does not make use of dependent variable.