Machine Learning

Data Pre Processing

Regression

Classification

Clustering

Reinforcement Learning

Natural Language Processing

Artificial Intelligence

QUIZ TOPIC - REGRESSION

1. Suppose you have to predict the salary of an employee from their years of experience where the dataset has a salary range from 10000 to 50000. In which of the intervals your regressive model should predict?

- O A. 10000 to 20000
- OB. 10000 to 40000
- OC. 25000 to 50000
- D. 10000 to 50000 ✔

2. In simple linear regression, if you change the input value by 1 then output value will be changed by:

- O A. 1
- B. The slope parameter
- C. The intercept parameter
- OD. None

3. You can compute the residual by-

- A. actual y-coordinate value predicted y-coordinate value

 ✓
- O B. predicted y-coordinate value actual y coordinate value
- O C. actual y-coordinate value / predicted y-coordinate value
- O D. None

4. How to see the value of residuals geometrically

● A. The perpendicular distance between a data point and the regression line

- O B. The euclidian distance between a data point and the regression line
- O C. The horizontal distance between a data point and the regression line
- O D. The vertical distance between a data point and the regression line

5. The equation of the regression line is y = 5x + 3. Predict y when x = 8.

- A. 43
- B. 53
- O C. 23
- O D. None

6. The equation of the regression line is y = 8x - 2. Compute the residual for the point (4, 28)



○ A.	. 2
○ B.	. 1
○ C.	2 ✔
O D	. 4
	at would be the best regression model for more than one endent variable?
O A.	. Simple Linear Regression
B.	Multiple Linear Regression 🗸
○ C.	. Logistic Regression
O D	. All of the Above
_	pose you have observed that you data has an exponential grown
O A.	. Simple linear regression
○ B.	Multiple linear regression
○ C.	. Polynomial regression 🗸
\bigcirc D	. Logistic regression
9. Can	we perform linear regression with a neural network?
A.	. Yes, we can ✔
○ B.	No, we can not
○ C.	. Partially we can
O D	. None
	you get a poor accuracy using a simple linear regression model. will be the cause behind it-
O A.	. The data was not linear
○ B.	The data has outliers
○ C.	. Both A or B depending on the context ✔
O D	. None
_	your data grows in a non-linear fashion. Which model won't rm well?
perfor	
perfor	rm well?
O A.	rm well? . Polynomial regression

O A. Th	e model was over fitted with the training data 🗸
○ B. Th	e model was under fitted with the training data
O C. Th	e model is absolutely fine
O D. No	one
3. What	is a support vector?
O A. Th	e average distance between all the data points
○ B. Th	e distance between any two data points
OC. Th	e distance between two boundary data points 🗸
○ D. Th	e minimum distance between any two data points
4. What	is a kernel?
O A. A	function that calculates the distance of two boundary data point
B. A f	function that maps the value from one dimension to the other $ullet$
○ C. A 1	function that predicts the output value of a regression
O D. No	one
5. Which	of the following is not a kernel?
5. Which	of the following is not a kernel? Iynomial Kernel
5. Which O A. Po O B. Ga	of the following is not a kernel? Iynomial Kernel ussian Kernel
5. Which O A. Po O B. Ga	of the following is not a kernel? Ilynomial Kernel ussian Kernel gmoid Kernel
5. Which A. Po B. Ga C. Sig D. No	of the following is not a kernel? Ilynomial Kernel ussian Kernel gmoid Kernel
5. Which A. Po B. Ga C. Sig D. No 6. What	n of the following is not a kernel? Ilynomial Kernel ussian Kernel gmoid Kernel one ✓
5. Which A. Po B. Ga C. Sig D. No 6. What	n of the following is not a kernel? Ilynomial Kernel ussian Kernel gmoid Kernel one ✓ does epsilon represent in Support Vector Regression?
5. Which A. Po B. Ga C. Sig D. No 6. What A. Bo B. Err	n of the following is not a kernel? Ilynomial Kernel ussian Kernel gmoid Kernel one ✓ does epsilon represent in Support Vector Regression? undary threshold
5. Which A. Po B. Ga C. Sig D. No 6. What A. Bo B. Err	n of the following is not a kernel? Ilynomial Kernel ussian Kernel gmoid Kernel one ✓ does epsilon represent in Support Vector Regression? undary threshold or threshold ✓ stance threshold
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5. Which A. Po B. Ga C. Sig D. No 6. What A. Bo B. Err C. Dis D. No 7. In Reg	Ilynomial Kernel ussian Kernel gmoid Kernel one ✓ does epsilon represent in Support Vector Regression? undary threshold or threshold ✓ stance threshold one
5. Which A. Po B. Ga C. Sig D. No 6. What A. Bo B. Err C. Dis D. No 7. In Reg	Ilynomial Kernel ussian Kernel gmoid Kernel gmoid Kernel one ✓ does epsilon represent in Support Vector Regression? undary threshold or threshold or threshold one gression, a decision tree splits the dataset based on-
5. Which A. Po B. Ga C. Sig D. No 6. What A. Bo B. Err C. Dis D. No 7. In Reg A. Inf	Ilynomial Kernel ussian Kernel gmoid Kernel one does epsilon represent in Support Vector Regression? undary threshold or threshold ore threshold one gression, a decision tree splits the dataset based on- formation entropy ore specific communication of the splits of the dataset based on- formation entropy ore splits the dataset based on-

O A. Logisti	Regression 🗸
○ B. Suppo	t Vector Regression
O C. Polyno	mial Regression
O D. None	
19. Which on	e is not a better algorithm in the sense of overfitting?
A. Simple	linear regression ✓
O B. Decisio	n tree
○ C. Rando	m forest
OD. All of	he above
	al value of a data point is 50 and the predicted value is 5 he Mean Absolute Error(MAE)
○ A5	
B. 5 ✓	
○ C. 2.5	
○ D2.5	
21. Which of	the following is a regression algorithm?
	the following is a regression algorithm? Regression
A. Linear	
A. Linear	Regression Regression
A. LinearB. Logisti	Regression Regression
 A. Linear B. Logisti C. Both A D. None 	Regression Regression and B Tou have to predict the salary of employees from their
 A. Linear B. Logisti C. Both A D. None 	Regression Regression and B ou have to predict the salary of employees from their his is a-
 A. Linear B. Logisti C. Both A D. None 22. Suppose yexperience. 1	Regression Regression and B ou have to predict the salary of employees from their his is a- cation task
 A. Linear B. Logisti C. Both A D. None 22. Suppose yexperience. T A. Classif 	Regression Regression and B Tou have to predict the salary of employees from their his is a- cation task Sion task
 A. Linear B. Logisti C. Both A D. None 22. Suppose y experience. T A. Classif B. Regres 	Regression Regression and B Tou have to predict the salary of employees from their his is a- cation task Sion task
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\bigcirc The	e equation itself choose the learning rate
○ B. E	Becomes slower with a large number of features 🗙
○ C. I	teration is not required
O D. /	All of them ✓
25. Whi	ich methods are used to find the best fit line in linear regression
○ A. I	Logarithmic Loss
○ B. A	Area Under Curve
○ C. E	Both A and B
D. I	Least Square Error ✔
26. Wh a	at will happen when you increase the size of training data?
○ A. I	Bias decreases and Variance increases
○ B. E	Bias increases and Variance increases
○ C. E	Bias increases and Variance decreases ✔
○ D. I	Bias decreases and Variance decreases
27. If yc	ou fit 2 degree polynomial in linear regression-
○ A. ⁻	The model will overfit the data
○ B. 1	The model will underfit the data ✔
O C. 7	The model will perform perfectly
O D. I	None
Explana degree.	ation: Higher degree polynomials have chances to underfit at a lowe
28. Whi	ich of the following evaluation metrics can be used for sion?
O A. /	AUC-ROC
B. N	Mean-Squared-Error ✔
O C. A	Accuracy
O D. 1	f1 score
	ation: Regression gives continuous output. So, we use Mean-d-Error or MSE as evaluation metric. Rest are used in classification.
29. Line	ear regression is-
● A. s	sensitive to outliers 🗸
○ B. r	not sensitive to outliers

 \bigcirc C. not affected by outliers

O D. None

Explanation: The regression line changes due to outliers. So, it is sensitive to outliers.

30. What is true about Residuals?

○ A. Higher is better

○ B. Lower is better
○ C. A or B depending on the context

○ D. None



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