Quiz - 1 (Regular)

Due Jan 16 at 21:30 **Points** 8 **Questions** 8
Available Jan 16 at 21:00 - Jan 16 at 21:30 30 minutes **Time Limit** 30 Minutes

Instructions

Time limit = 30 minutes

Total Marks = 8 (8 Questions of 1 mark each)

No negative marking will be given for wrong answers

This quiz was locked Jan 16 at 21:30.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	14 minutes	8 out of 8

Score for this quiz: **8** out of 8
Submitted Jan 16 at 21:14
This attempt took 14 minutes.

Question 1

1 / 1 pts

The output of a classification model is always a discrete random variable.

Correct!

- True

False

Question 2

1 / 1 pts

Which of the following statements is true for k-NN classifiers?

In a KNN classifier, the nearest neighbors of an instance are determined based on Decision Boundary.

Correct!

In a KNN classifier, the nearest neighbors of an instance are determined based on Euclidean Distance.

In a KNN classifier, the nearest neighbors of an instance are determined based on Maximum Likelihood.

In a KNN classifier, the nearest neighbors of an instance are determined based on Maximum Margin.

Question 3

1 / 1 pts

Logistics Regression is a type of _____

- Probabilistic generative model
- Probability discriminative model

Correct!

- Tree based model
- Gaussian mixture model

Question 4

1 / 1 pts

Which of the following will be Euclidean Distance between the two data point A(3,5) and B(6,1)?

- 16
- 5

Correct!

- None of these
- 25

Question 5

1 / 1 pts

In k-NN what happens if we increase the value of k?

- Smoothness of boundary doesn't dependent on value of K
- The boundary becomes smoother with increasing value of K

Correct!

- Computation cost reduces with increase in the value of K
- None of these

Question 6

1 / 1 pts

Choose the correct pair out of the following:

1.) Predicting price of house: Binary Classification
2.) Predicting the result of a football match: Multiclass Classification
3.) Predicting whether it will rain today: Multiclass Classification
4.) Predicting whether an item in a store will be sold: Binary Classification

- 1. & 4.

Correct!

- 2. & 4.
- 1. & 3.
- All of these

Question 7

1 / 1 pts

How to determine the optimal value for K in K Nearest Neighbors Algorithm?

- Using Bayes Theorem
- Using the Maximum Likelihood
- Using Elbow Method

Correct!

- Using Sigmoid Function

Question 8

1 / 1 pts

What is the decision boundary in classification?

- A boundary with decision points which finds outliers in the data
- A boundary which tells a gradual change of one class to another
- None of these

Correct!

A boundary which separates the classes from one another in a vector space

Quiz Score: **8** out of 8