



Classification & Clustering (Unit-5)

Total points **10/10** ?

Quizzes

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☐ A

☒ B

☐ C

- ✓ In which of the following cases will K-means clustering fail to give good results? 1) Data points with outliers 2) Data points with different densities 3) Data points with nonconvex shapes *

☒ 1, 2, and 3

☐ 1 and 2



☐ 2 and 3

✓ Imagine, you are solving a classification problems with highly imbalanced 1/1 class. The majority class is observed 99% of times in the training data. Your model has 99% accuracy after taking the predictions on test data. Which of the following is true in such a case? 1)Accuracy metric is not a good idea for imbalanced class problems. 2)Accuracy metric is a good idea for imbalanced class problems. 3)Precision and recall metrics are good for imbalanced class problems. 4)Precision and recall metrics aren't good for imbalanced class problems.

☒ 1 and 3 ✓

☐ 1 and 4

☐ 2 and 3

✓ In ensemble learning, you aggregate the predictions for weak learners, 1/1 so that an ensemble of these models will give a better prediction than prediction of individual models. Which of the following statements is / are true for weak learners used in ensemble model? 1)They don't usually overfit. 2)They have high bias, so they cannot solve complex learning problems. 3)They usually overfit.

☒ 1 and 2 ✓

☐ 1 and 3

☐ 2 and 3

✓ Which algorithm is used for solving temporal probabilistic reasoning? * 1/1

☐ Depth-first search

☒ Hidden markov model



☐ Hill-climbing search

✓ Which allows for a simple and matrix implementation of all the basic algorithm? * 1/1

☐ HMM

☒ Restricted structure of HMM



☐ Temporary model

✓ Where does the Hidden Markov Model is used? 1/1

☒ Speech recognition



☐ Understanding of real world

☐ Both a & b

✓ What is/are true about kernel in SVM?1. Kernel function map low dimensional data to high dimensional space2. It's a similarity function * 1/1

☐ 1

☐ 2

☒ 1 and 2



✓ What does the bayesian network provides? 1/1



☒ Complete description of the domain



☐ Partial description of the domain

☐ Complete description of the problem

✓ How the bayesian network can be used to answer any query?

1/1

☒ Full distribution



☐ Joint distribution

☐ Partial structure

✓ What is the consequence between a node and its predecessors while creating bayesian network? *

1/1

☐ Functionally dependent

☐ Dependant

☒ Conditionally independent



☐ Both Conditionally dependant & Dependant

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