

Worksheet

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Name:		
Roll No:	Class:	Section:
Date:		

CLASSIFICATION AND CLUSTERING

Unit-9

- 1. State True or False:
 - a. K means clustering is a repetitive process.
 - b. Binary classification algorithms group people with similar characteristics who are most likely to buy your product or service.
 - c. Accuracy can be defined as the proportion of positive cases that are correctly identified.
- 2. Differentiate between binary classification and k means clustering.
- 2. For an AI model recall is 0.22 and precision is 0.33. Calculate the F1 score of the model. Also state the range of F1 score.
- 3. Why is F1 score called the better metric for judging a model's performance?
- 5. An AI model studies data samples of 1000 patients and predicts osteoporosis. The prediction categories and their numbers are given as follows:

TP = 500 TN = 304

FP = 90 FN = 106

Create a confusion matrix using the above information. Also calculate Accuracy,

Recall, Precision and F1 Score.