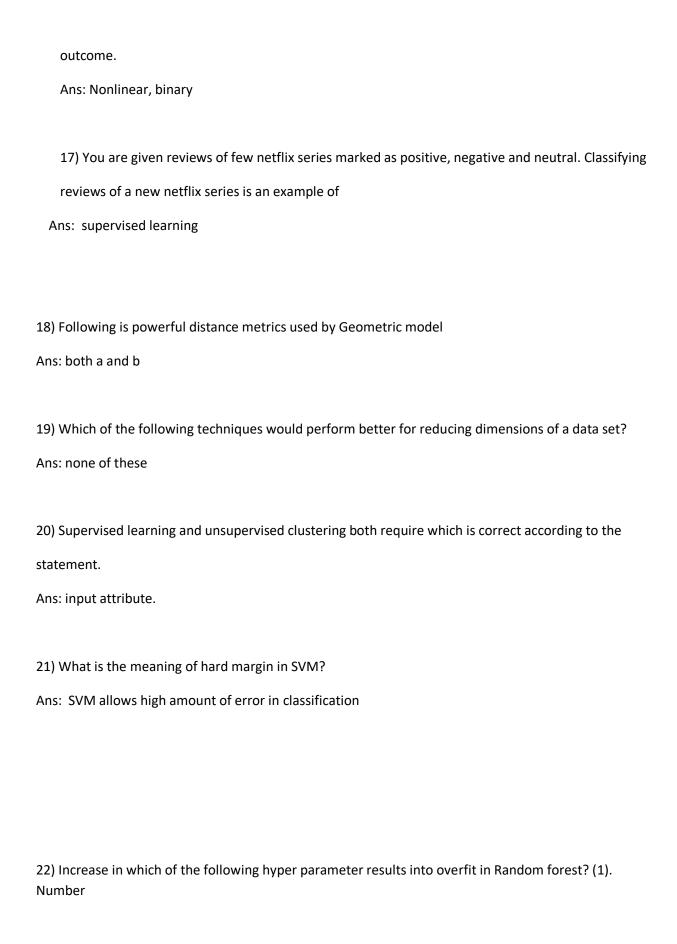
FILE:3

1. Among the following identify the one in which dimensionality reduction reduces.
Ans: Collinearity
2) Which of the following machine learning algorithm is based upon the idea of bagging?
Ans: Random Forest
3)Choose a disadvantage of decision trees among the following.
Ans: Decision Tree are prone to overfit
4) What is the term known as on which the machine learning algorithms build a model based on
sample data?
Ans: Training Data
5) Which of the following machine learning techniques helps in detecting the outliers in data?
Ans: Anamoly detection
6) Identify the incorrect numerical functions in the various function representation of machine
learning.
Ans: Case Based
7) Analysis of ML algorithm needs
Ans: Both A and B
8) Identify the difficulties with the k-nearest neighbor algorithm.

9) The total types of the layer in radial basis function neural networks is
Ans: 3
10) Which of the following is not a supervised learning
Ans: PCA
11) What is unsurpossized looksing?
11) What is unsupervised learning?
Ans: None of the above
12) Which of the following is not a machine learning algorithm?
Ans: SVG
7413.376
13) is the scenario when the model fails to decipher the underlying trend in the input data
Ans: Underfitting
14) Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are
applications of
Ans: Reinforcement learning.
15) What is called the average squared difference between classifier predicted output
Ans: RMSE
16) Logistic regression is a regression technique that is used to model data having a

Ans: None



of Trees. (2). Depth of Tree, (3). Learning Rate

Ans: Only 2

23) Below are the 8 actual values of target variable in the train file: [0,0,0,0,0,1,1,1,1,1,1], What is the

entropy of the target variable?

Ans: $4/10 \log(6/10) + 6/10 \log(4/10)$

24) Lasso can be interpreted as least-squares linear regression where

Ans: weights are regularized with the l1 norm

25) Consider the problem of binary classification. Assume I trained a model on a linearly separable

training set, and now I have a new labeled data point that the model properly categorized and is far

away from the decision border. In which instances is the learnt decision boundary likely to change if I

now add this additional point to my previous training set and re-train? When the training model is,

Ans: Support vector machine

26) Assume you've discovered multi-collinear features. Which of the following actions do you

intend to take next? (1). Both collinear variables should be removed. (2). Instead of deleting both

variables, we can simply delete one. (3). Removing correlated variables may result in information

loss. We may utilize penalized regression models such as ridge or lasso regression to keep such

variables.

Ans: Either 1 or 3

27)A least squares regression study of weight (y) and height (x) yielded the following least squares line:

y = 120 + 5x. This means that if the height is increased by one inch, the weight should increase by
what amount?
Ans: increase by 5 pound
28) The line described by the linear regression equation (OLS) attempts to?
Ans: Minimize the squared distance from the points
29) For two real-valued attributes, the correlation coefficient is 0.85. What does this value indicate?
Ans: The attributes are not linearly related
30) Which neural network architecture would be most suited to handle an image identification problem
(recognizing a dog in a photo)?
Ans: Convolutional Neural Network