IS LAB VIVA (13-9-2021) Sec A

Hi HARSHVARDHAN, when you submit this form, the owner will be able to see your name and email address.

1. Write some properties of SVM.

1. SVMs can be used to perform linear classification. 2. SVMs can efficiently perform a non-linear

2. Write some disadvantages of SVM.

1. SVM algorithm is not suitable for large data sets. 2.SVM does not perform very well when the c

3. In what type of learning labelled training data is used

- ○ A. unsupervised learning
- ◉ B. supervised learning
- ○ C. reinforcement learning
- ○ D. active learning

4. Name some kernel functions used in SVM.

1. Polynomial kernel. 2. Gaussian kernel

5. **The SVM's are less effective when:**

- ○ A) The data is linearly separable
- ○ B) The data is clean and ready to use
- ◉ C) The data is noisy and contains overlapping points

6. Which of the following is not type of learning?

- ○ Unsupervised Learning
- ○ Supervised Learning
- ◉ Semi-unsupervised Learning
- ○ Reinforcement Learning

7. **If I am using all features of my dataset and I achieve 100% accuracy on my training set, but ~70% on validation set, what should I look out for?**

- ○ A) Underfitting
- ○ B) Nothing, the model is perfect
- ◉ C) Overfitting

8. **Support vectors are the data points that lie closest to the decision surface. True or False**

True

9. Margin of a hyperplane is defined as:

- ○ A. The angle it makes with the axes

- ○ B. The intercept it makes on the axes
- ◉ C. Perpendicular distance from its closest point
- ○ D. Perpendicular distance from origin

10. **In SVM, the dimension of the hyperplane depends upon which one?**

- ◉ (A) the number of features
- ○ (B) the number of samples
- ○ (C) the number of target variables
- ○ (D) All of the above

11. **SVM, which best segregates classes into how many classes?**

- ○ a. One
- ◉ b. Two
- ○ c. Three
- ○ d. Four

12. **Support Vector Machine (SVM) can be used for _____.**

Linear classification, non-linear classification using kernel trick

13. Define Artificial Intelligent and Machine learning?

Machine Learning is the process by which machines can perform a specified task without explicit

14. Write some advantages of SVM.

1. SVM's are very good when we have no idea on the data. 2. Works well with even unstructured

15. What is the purpose of the Kernel Trick in SVM?

The kernel trick avoids the explicit mapping that is needed to get linear learning algorithms to le

16. The SVMs are less effective when:

- ○ A. the data is linearly separable
- ○ B. the data is clean and ready to use
- ◉ C. the data is noisy and contains overlapping points

17. Closest Point to the hyper plane are support vectors

- ◉ True
- ○ False

18. **Write application area of SVM.**

1. Facial Expression Classification. 2. Text Classification.

Submit