

Machine Learning (Sem- VI)

Total points 10/12 ?

Academic Year 2020-21

The respondent's email (**19313063prathamesh@viva-technology.org**) was recorded on submission of this form.

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Roll No. *

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First Name *

Prathamesh

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Parab

Course Exit Survey

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CSDLO6021.1 Understand the basic concepts of Machine Learning. *

- ☐ 1
- ☐ 2
- ☒ 3



CSDLO6021.2 Understand the concept of neural networks with its structure and working. *

- ☐ 1
- ☒ 2
- ☐ 3

CSDLO6021.3 Choose appropriate optimization techniques for machine learning algorithms. *

- ☐ 1
- ☒ 2
- ☐ 3

CSDLO6021.4 Implement learning with regression and decision trees. *

- ☐ 1
- ☐ 2
- ☒ 3

CSDLO6021.5 Implement learning with classification and clustering. *

- ☐ 1
- ☐ 2
- ☒ 3



CSDLO6021.6 Examine various Dimensionality reduction techniques. *

- ☐ 1
- ☐ 2
- ☒ 3

QUIZ (Attempt All the Questions)

10 of 12 points

✓ 1. Supervised learning differs from unsupervised learning, because supervised learning needs.. *

1/1

- ☐ at least one input attribute.
- ☒ input attributes to be categorical. ✓
- ☐ at least one output attribute.
- ☐ output attributes to be categorical

✓ 2. "A computer program is said to learn from experience E with respect to some task T and some performance measure P, if its performance on T, as measured by P, improves with experience E." Suppose your email program watches which emails you do or do not mark as spam, and based on that learns how to better filter spam. What is the task T in this setting? *

1/1

- ☒ Classify emails as spam or not spam. ✓
- ☐ Watching you label emails as spam or not spam
- ☐ The number (or fraction) of emails correctly classified as spam/not spam.
- ☐ None of the above, this is not a machine learning algorithm



✓ 3. Which of the following is not a component of Biological Neuron? * 1/1

- ☐ Axon
- ☐ Nucleus
- ☒ Hidden layer
- ☐ Dendrite



✗ 4. Which of the following is defining Activation Function most accurately? * 0/1

- ☒ Hypothesis function
- ☐ A function which maps input value to the output value
- ☐ A function used to assign the weights of edges in neural networks.
- ☐ A function which passes the values through layers in Neural networks



✓ 5. Goal of optimizing machine learning algorithms is: * 1/1

- ☐ Minimizing a cost of an algorithm
- ☐ Reducing error rate
- ☐ Improving accuracy
- ☒ All of the above



✓ 6. Which of the following is not an optimization technique? * 1/1

- ☐ Newton method
- ☐ Down Hill Simplex
- ☐ Random Search
- ☒ Expectation Maximization



✓ 7. Which of the following is not a probabilistic model? * 1/1

- ☐ Decision Tree
- ☐ Bayesian Belief networks
- ☐ Hidden Markov Models
- ☒ Support Vector Machine:



✓ 8. What is a difference between classification and regression * 1/1

- ☒ Classification algorithms give discrete output where regression algorithms give continuous valued output ✓
- ☐ Classification algorithms give continuous output where regression algorithms give discrete valued output
- ☐ These are unsupervised techniques of Machine Learning
- ☐ None of the above



✓ 9. Which of the following is not related to Bayesian Belief networks? * 1/1

- ☐ Directed Acyclic Graph
- ☒ Support Vectors
- ☐ Conditional Probability Table
- ☐ Conditional Probability



✗ 10. Kernel functions in SVM are used.. * 0/1

- ☐ To improve Accuracy
- ☐ To map data into the higher dimensions
- ☐ To optimize hyper-parameters
- ☒ All of the Above



✓ 11. Why we need Dimensionality Reduction Techniques? * 1/1

- ☐ Reducing computational cost of many algorithms
- ☐ Making the results easier to understand
- ☐ Making the datasets easier to use
- ☒ All of the Above



✓ 12. Which of the following is true about PCA *

1/1

- ☐ Reduces complexity of data
- ☐ Works with numerical values only
- ☐ Identifies most important features
- ☒ All of the above



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