Machine Learning Assignment 2

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* Required

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   20BEC024

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   YALINI SHREE P V

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   ◯ A

   ⦿ B

4. Which of the following are ensemble methods ? (1 Point) *

   ☑ Bagging

   ☑ Random forest

   ☐ Support vector machine

   ☑ Boosting

5. Which of the following are unsupervised algorithms ? (1 Point) *

- [ ] Linear regression
- [x] K-means clustering
- [x] DBSCAN
- [x] Agglomerative clustering
- [ ] Support Vector Machine

6. What are the two hyper parameters of DBSCAN algorithm ? (1 Point) *

Please select at most 2 options.

- [x] Minimum distance
- [x] Minimum samples
- [ ] Minimum time
- [ ] Minimum noise

7. Which of the following are types of recommender system? (1 Point) *

- [ ] Noise filtering
- [x] Collaborative filtering
- [ ] Mean Filtering
- [x] Content filtering

8. Which one of the following is not a choice for merging clusters? (1 Point) *

○ ward

○ average

○ complete

● shape

9. A Gaussian mixture model is a probabilistic model that assumes that the instances were generated from a mixture of several _____. (1 Point) *

○ Poisson distributions

● Normal distributions

○ Binomial distributions

○ Bernoulli distributions

10. Which one of the following is not an activation function? (1 Point) *

○ Logistic function

○ Hyperbolic tangent function

● Sine function

○ Rectified Linear function

11. Which of the following are hyper parameters of MLP? (1 Point) *

- ☐ Input neurons

- ☑ Hidden layers

- ☑ Activation function

- ☐ Connection Weights

12. If size of the input image to average pooling layer is 256*256 and filter size of 2*2 is applied with stride 2, then the size of output is _____. (1 Point) *

- ○ 127*127

- ○ 253*253

- ○ 254*254

- ◉ 128*128

13. Which one of the following is not a CNN architecture? (1 Point) *

- ○ LeNet

- ○ AlexNet

- ◉ ZipNet

- ○ GoogleNet