**Aravindh U**

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# Course End Assessment

Rules   Grading policy   Your Grades

## # Attempt 1

You scored **25/31** in this challenge. Please see the below table for details

| | | | |
|---|---|---|---|
| 1 | - | - | 25 / 31 |

### #Question1

An event in the probability that will never be happened is called a -

**Correct Answers**

✔ Impossible event

**Your Answers**

✔ Impossible event

### #Question2

Which of the following can be the probability of an event?

**Correct Answers**

✔ 3/8

**Your Answers**

✔ 3/8

### #Question3

Height, weight, length of a person are

**Correct Answers**

✔ Numerical variable

**Your Answers**

✔ Numerical variable

### #Question4

The denominator (bottom) of the z-score formula is

**Correct Answers**

✔ The standard deviation

**Your Answers**

✔ The standard deviation

### #Question5

Let A and B be the two possible outcomes of an experiment and suppose $P(A) = 0.4$

$P(A \cup B) = 0.7$ and $P(B) = p$. For what choice of p are A and B mutually exclusive?

**Correct Answers**

✔ 0.3

**Your Answers**

✔ 0.3

### #Question6

Which of the following is not supervised learning?

**Correct Answers**

✔ PCA

**Your Answers**

✔ PCA

### #Question7

Real-Time decisions, Game AI, Learning Tasks, Skill Acquisition, and Robot Navigation come under

**Correct Answers**

✔ Reinforcement learning

**Your Answers**

✔ Reinforcement learning

### #Question8

Targeted marketing, Recommended Systems, and Customer Segmentation come under

**Correct Answers**

✔ Unsupervised Learning: Regression

**Your Answers**

✖ Unsupervised learning: Clustering

### #Question9

Fraud Detection, Image Classification, Diagnostic, and Customer Retention come under

**Correct Answers**

✔ Supervised learning: Classification

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### Your groups

- core and advanced python programming
- Data Visualization using Excel
- Machine learning fundamentals in depth
- Introduction to Machine learning and their implementation in python
- SQL for Data Science

See all

### Your Status

You have scored 29509 points. Keep go

**Your Answers**

✔Supervised learning: Classification

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**#Question10**

Which of the following is a widely used and effective machine learning algorithm based on the idea of bagging?

**Correct Answers**

✔Random forest

**Your Answers**

✔Random forest

---

**#Question11**

Common classes of problems in machine learning is _ _ _ _ _ _ _ _ _ _ _ _ _

**Correct Answers**

✔All of these

**Your Answers**

✔All of these

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**#Question12**

In the example of predicting the number of babies based on stork's population, the number of babies is

**Correct Answers**

✔Outcome

**Your Answers**

✔Outcome

---

**#Question13**

In simple term, machine learning is

**Correct Answers**

✔Both A and B

**Your Answers**

✔Both A and B

---

**#Question14**

PCA is

**Correct Answers**

✔Feature extraction

**Your Answers**

✔Feature extraction

---

**#Question15**

In multiclass classification, the number of classes must be

**Correct Answers**

✔Geometric model

**Your Answers**

✖Logical model

✖Probabilistic model

---

**#Question16**

In multiclass classification, the number of classes must be

**Correct Answers**

✔Greater than two

**Your Answers**

✔Greater than two

---

**#Question17**

What are the advantages of the nearest neighbor algo?

**Correct Answers**

✔All of the above

**Your Answers**

✖Don't lose information

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**#Question18**

What are the difficulties with k-nearest neighbour algo?

**Correct Answers**

✔Both A & B

**Your Answers**

✔Both A & B

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**#Question19**

Which of the following is a disadvantage of decision tree?

**Correct Answers**

✔Decision trees are prone to be overfit

**Your Answers**

✔Decision trees are prone to be overfit

**#Question20**

Tree/Rule-based classification algorithms generate which rule to perform the classification?

**Correct Answers**

✔ If-then

**Your Answers**

✔ If-then

**#Question21**

What is Gini Index?

**Correct Answers**

✔ It is a measure of purity

**Your Answers**

✔ It is a measure of purity

**#Question22**

A neural network can answer

**Correct Answers**

✔ What-if questions

**Your Answers**

✔ What-if questions

**#Question23**

Which of the following is the advantage(s) of a decision tree?

**Correct Answers**

✔ All of the mentioned

**Your Answers**

✔ All of the mentioned

**#Question24**

Where can the Bayes rule be used?

**Correct Answers**

✔ Answering probabilistic query

**Your Answers**

✔ Answering probabilistic query

**#Question25**

Which of the following is a widely used and effective machine learning algorithm based on the idea of bagging?

**Correct Answers**

✔ Random Forest

**Your Answers**

✔ Random Forest

**#Question26**

To find the minimum or the maximum of a function, we set the gradient to zero because:

**Correct Answers**

✔ The value of the gradient at the extreme of a function is always zero

**Your Answers**

✔ The value of the gradient at the extreme of a function is always zero

**#Question27**

For a particular learning task, if the requirement of the error parameter changes from 0.1 to 0.01. How many more samples will be required for PAC learning?

**Correct Answers**

✔ 10 times

**Your Answers**

✘ 1000 times

**#Question28**

How many terms are required for building a Bayes model?

**Correct Answers**

✔ 3

**Your Answers**

✘ 2

**#Question29**

A feature F1 can take a certain value: A, B, C, D, E, & F and represents the grade of students from a college. Which of the following statements is true in the following case?

**Correct Answers**

✔ Feature F1 is an example of ordinal

**Your Answers**

✔ Feature F1 is an example of ordinal

**#Question30**

Which of the following statements about regularization is not correct?

**Correct Answers**

✔Using too large a value of lambda can cause your hypothesis to underfit

**Your Answers**

✘Using a very large value of lambda cannot hurt the performance of your hypothesis.

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**#Question31**

Genetic algorithms are a part of

**Correct Answers**

✔All of the above

**Your Answers**

✔All of the above