

Review your last 10 questions

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Not attempted questions(Timed out)	0
Skipped questions	0
Correct questions	7
Incorrect questions	3
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Total Questions	40

1/10

Which of the following is a deterministic classifier?

Kernel logistic regression model

SVM

Both a and b

None of the above

Incorrect

2/10

Retrieval based models and Generative models are the two popular techniques used for building chatbots. Which of the following is an example of retrieval model and generative model respectively.

Dictionary based learning and Word 2 vector model

Rule based learning and Sequence to Sequence model

Word 2 vector and Sentence to Vector model

Recurrent neural network and convolutional neural network

Correct

3/10

Online Chat ^

A research student is working on image processing to help impaired people. He has a large dataset of photos which have to be used in the learning process. Less than 50% of the photos are labeled which means he has less number of photos of which he knows the type. The student is making some assumptions about the relationship of labeled data and unlabeled data, but he is not sure about the assumptions. Which of the following learning can provide better results?

- Supervised
- Unsupervised
- Semi-supervised
- cannot be determined

Correct

4/10

Hyperparameters play a critical role in improving (or decreasing) our model's performance. Which of the following algorithms uses learning rate as a hyperparameter?

- Gradient boosting.
- AdaBoost.
- Both
- None

Correct

5/10

If $P(X \cap Y) = 7/10$ and $P(Y) = 17/20$, then $P(X|Y)$ is

- $1/2$
- $14/17$
- $4/5$
- $1/8$

Correct

6/10

Which of the following is example of low level feature in an image?

- HOG
- SIFT
- HAAR features

Online Chat ^

- All of the above

Incorrect

7/10

Which of the following is a bottleneck for deep learning algorithm?

- Data related to the problem
- CPU to GPU communication
- GPU memory
- All of the above

Incorrect

8/10

The sales for each month is stored in a numpy array *sales*. The head of sales and marketing wants the list of sales which are greater than Rs. 70,000. Which of the following options achieve this task? (The result should be of the type `numpy.ndarray`)

- `sales > 70000`
- `sales(sales > 70000)`
- `sales[sales>70000]`
- All of the above

Correct

9/10

Assume that we are conducting an experiment for proving that a coin is biased towards heads. Our test statistic is defined by the number of heads observed on flips of a coin. Suppose that the coin is flipped 5 times and each time a head is observed. The significance level is defined as 5%.

What can you conclude about the coin?

- The coin is unbiased
- The coin is biased towards head --ans
- Cannot be determined without relevant data

- The coin is biased towards head

Online Chat ^

Cannot be determined without relevant data

- Cannot be determined without relevant data

Correct

10/10

Convergence in classic k-means algorithm’s llyod’s approximation is achieved when-

- Difference between two successive set of centroids is more than 1
- Difference between two successive set of centroids is less than 1
- Difference between two successive set of centroids is more than threshold

Difference between two successive set of centroids is less than threshold

Correct

i Suggested reading

[Guide For Data Exploration In Python Using NumPy, Matplotlib, Pandas](#)

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