

**23W AI Robotics and Automation - 01 AIDI1012-23W-20950**

Assignments & Tests

[Link to Quiz # 2 Vision Deep Neural Networks \(DNNs\)](#)

Take Test: Quiz # 2

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Test Information

Description **Due Date: 10th of February/2023**

Instructions

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed later.

Your answers are saved automatically.

Question Completion Status:



QUESTION 1

1 points

Saved

Which of the following functions allocates a memory range that is compatible with cudaMemPrefetchAsync()?

- ☒ A. cudaMallocManaged()
- ☐ B. cudaMalloc ()
- ☐ C. cudaMemAdvise()
- ☐ D. cudaMemCopy()

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All

QUESTION 2**2 points**

Saved

CNN is mostly used when there is an?

- ☐ A. structured data
- ☒ B. unstructured data
- ☐ C. Both A and B
- ☐ D. None of the above

QUESTION 3**1 points**

Saved

Data stored in CSV (comma separated values) formats may not be easy to parse.

- ☒ True
- ☐ False

QUESTION 4**1 points**

Saved

Generally speaking, companies hiring data scientists are looking for a person who possesses a broad spectrum of data skills (e.g., visualization, machine learning/data mining, statistics, etc.)

- ☒ True
- ☐ False

QUESTION 5**1 points**

Saved

Which of the following is one of the key data science skills?

- ☐ A. Statistics
- ☐ B. Machine Learning
- ☐ C. Data Visualization
- ☒ D. All of the above

QUESTION 6**1 points**

Saved

Which skill(s) will mostly be needed to be a data scientist?

- ☒ A. Analytical Skills
- ☒ B. Programming
- ☐ C. Math
- ☐ D. Writing

QUESTION 7**1 points**

Saved

How many layers Deep learning algorithms are constructed?

- ☐ A. 2
- ☒ B. 3
- ☐ C. 4
- ☐ D. 5

QUESTION 8**2 points**

Saved

Which of the following is/are Limitations of deep learning?

- ☐ A. Data labeling
- ☐ B. Obtain huge training datasets
- ☒ C. Both A and B
- ☐ D. None of the above

QUESTION 9**1 points**

Saved

A highly well-trained model has been trained to detect features of a dog. The model is also used to detect a skinny hairless dog which looks like a chicken. What might be

wrong that the hairless dog is not classified at all?

- ☐ A. Image quality is poor
- ☒ B. There were no photos of hairless dogs in the training data
- ☐ C. A weakness exists in computer vision
- ☐ D. There weren't enough dog photos in the training data

QUESTION 10**1 points**

Saved

What is the most crucial step in image classification to identify the features of a dog?

- ☐ A. Try to classify a photograph of a dog
- ☒ B. Use dog images to train AI
- ☐ C. Use pre-trained AI model
- ☐ D. Use images of different animals to teach the AI

QUESTION 11**1 points**

Saved

An image is a two-dimensional function of ____ coordinates.

- ☒ A. Spatial
- ☐ B. Network
- ☐ C. Dimension
- ☐ D. All of the above

QUESTION 12**2 points**

Save Answer

Digital image processing refers to the processing of a finite number of elements are referred to as ____

- ☐ A. picture elements
- ☐ B. image elements
- ☒ C. pixels
- ☐ D.

all of the above

QUESTION 13**1 points**

Saved

___ procedures partition an image into its constituents parts or objects.

- ☐ A. Classification
- ☒ B. Segmentation
- ☒ C. Aggregation
- ☐ D. Breaking up

QUESTION 14**2 points**

Saved

Which of the following is a subset of machine learning?

- ☐ A. Numpy
- ☐ B. SciPy
- ☒ C. Deep Learning
- ☐ D. All of the above

QUESTION 15**1 points**

Saved

The first layer is called the?

- ☒ A. inner layer
- ☐ B. outer layer
- ☐ C. hidden layer
- ☒ D. None of the above

First layer is actually "input layer", but there is no such option. So go with "inner".

QUESTION 16**1 points**

Saved

Which neural network has only one hidden layer between the input and output?

- ☒ A. Shallow neural network
- ☐ B. Deep neural network
- ☐ C. Feed-forward neural networks
- ☐ D. Recurrent neural networks

QUESTION 17**1 points**

Saved

For image processing digitizer is required that performs arithmetical and logical operations on images like ALU.

- ☒ True
- ☐ False

QUESTION 18**1 points**

Saved

RNNs stands for?

- ☐ A. Receives neural networks
- ☐ B. Report neural networks
- ☐ C. Recording neural networks
- ☒ D. Recurrent neural networks

QUESTION 19**2 points**

Saved

Which of the following is/are Common uses of RNNs?

- ☐ A. BusinessesHelp securities traders to generate analytic reports
- ☐ B. Detect fraudulent credit-card transaction
- ☒ C. Provide a caption for images
- ☐ D. All of the above

ChatGPT says neither options A or B are common uses of RNN, and affirms option "C" is correct. However, it's wrong accordingly to the answers after you finish the Quiz. So choose between A or B.

QUESTION 20**1 points**

Saved

Which language is commonly used with Statistics?

- ☐ A. C
- ☐ B. C++
- ☐ C. Ruby
- ☒ D. R