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*** Required**

Quiz III

All Questions are Compulsory

PANDAS stands for _____ *

1 point

- ☒ a. Panel Data Analysis
- ☐ b. Panel Data analyst
- ☐ c. Panel Data
- ☐ d. Panel Dashboard

Pandas Series can have _____ data types *

1 point

- ☐ a. float
- ☐ b. integer
- ☐ c. String
- ☒ d. All of the above



What is back propagation? *

1 point

- ☐ A. It is another name given to the curvy function in the perceptron
- ☐ B. It is the transmission of error back through the network to adjust the inputs
- ☒ C. It is the transmission of error back through the network to allow weights to be adjusted so that the network can learn
- ☐ D. None of the Above

Theano works a way _____ on Graphics Processing Unit (GPU) rather than on CPU. *

1 point

- ☐ A. slower
- ☐ B. very slower
- ☐ C. faster
- ☒ D. more faster

Back propagation is a learning technique that adjusts weights in the neural network by propagating weight changes. *

1 point

- ☐ Forward from source to sink
- ☐ Backward from sink to source
- ☒ Forward from source to hidden nodes
- ☐ Backward from sink to hidden nodes

ANN is composed of large number of highly interconnected processing elements(neurons) working in unison to solve problems *

1 point

- ☒ TRUE
- ☐ FALSE



What is the basic concept of Recurrent Neural Network? *

1 point

- ☐ Use loops between the most important features to predict next output.
- ☒ Use previous inputs to find the next output according to the training set.
- ☐ Use a loop between inputs and outputs in order to achieve the better prediction.
- ☐ Use recurrent features from dataset to find the best answers.

Neural Networks are complex _____ with many parameters *

1 point

- ☒ A. Linear Functions
- ☐ B. Nonlinear Functions
- ☐ C. Discrete Functions
- ☐ D. Exponential Functions

Can we have multidimensional tensors *

1 point

- ☐ No tensor can have maximum two dimensions
- ☐ Possible only in image data
- ☒ Yes possible
- ☐ Possible only in geo tagged data

Which of the following command is used to install pandas? *

1 point

- ☒ a. pip install pandas
- ☐ b. install pandas
- ☐ c. pip pandas
- ☐ d. None of the above



In TensorFlow, what is the used of a session? *

1 point

- ☐ The current work space session for storing the code
- ☐ We launch the graph in a session
- ☐ A session is used to download the data
- ☒ A session is used for exporting data out of TensorFlow

The amount of output of one unit received by another unit depends on what? *

1 point

- ☐ a) output unit
- ☐ b) input unit
- ☐ c) activation value
- ☒ d) weight

A perceptron is *

1 point

- ☒ A single layer feed forward neural network with preporcessing
- ☐ an auto associative neural network
- ☐ a double layer auto associative neural network
- ☐ a neural network that contain feedback



What is 'gradient' when we are talking about RNN? *

1 point

- ☐ The most important step of RNN algorithm
- ☒ A gradient is a partial derivative with respect to its inputs
- ☐ A parameter that can help you improve the algorithm's accuracy
- ☐ It is how RNN calls its features

Which of the following are modules/libraries in Python? *

1 point

- ☐ a. NumPy
- ☐ b. Pandas
- ☐ c. Matplotlib
- ☒ d. All of the above

How deep learning models are built on Keras *

1 point

- ☒ by using sequential models
- ☐ by creating place holders and computational graphs
- ☐ by creating data frames
- ☐ by using feed_dict



An artificial neuron receives n inputs $x_1, x_2, x_3, \dots, x_n$ with weights w_1, w_2, \dots, w_n attached to the input links. The weighted sum _____ is computed to be passed on to a non-linear filter Φ called activation function to release the output. *

- ☐ $\sum w_i$
- ☐ $\sum x_i$
- ☐ $\sum w_i + \sum x_i$
- ☒ $\sum w_i * x_i$

The network that involves backward links from output to the input and hidden layers is called _____. *

- ☐ A. Self organizing map
- ☐ B. Perceptrons
- ☒ C. Recurrent neural network
- ☐ D. Multi layered perceptron

A tensor is similar to *. 1 point

- ☒ Data Array
- ☐ ANN Model
- ☐ SQL query
- ☐ Pythoncode



Which of the following are advantages of theano ? *

1 point

- ☐ A. Stability Optimization
- ☐ B. Execution Speed Optimization
- ☐ C. Symbolic Differentiation
- ☒ D. All of the above

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