Student's Information

Total points 28/60

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0 of 0 points

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SET - A

28 of 30 points

✗ Which operator is used to perform matrix multiplication on tensors: 0/1

- ○ Both a and b
- ○ *
- ○ @
- ◉ None of these ✗

Correct answer

- ◉ @

✗ Which of the following command is used to remove all the logs from the previous run? 0/1

- ○ −rm −rf ./logs/
- ○ %load_ext tensorboardb)
- ◉ rm −rf ./logs/ ✗
- ○ !rm −rf ./logs/

Correct answer

- ◉ !rm −rf ./logs/

✓ Consider the following statements: A=tf.constant([[1,2],[3,4]]) B=tf.constant([[1,2],[3,4]]) C=A*B print(C.numpy()) 1/1

- [[1,2],[3,4]]
- [[1,4],[9,16]] ✓
- [[7,10],[15, 22]]
- [[4,3],[2,1]]

✓ Statement print(tf.config.list_physical_devices()) will 1/1

- print a list of physical devices only CPU visible to the host runtime.
- print a list of physical devices both CPU and GPU(if available) visible to the host runtime. ✓
- print a list of physical devices such as RAM,ROM, mouse etc. visible to the host runtime.
- print a list of physical devices only GPU visible to the host runtime.

✓ Which of the following is correct code to set figure size (10,10) to matplotlib plot? 1/1

- plt.figure(figsize=(10,10)) ✓
- plt.figure(fig_size=(10,10))
- plt.figure_size(10,10)
- plt.figure(figure_size=(10,10))

✓ Consider the following statement: import tensorflow as tf X=tf.constant([[0,1,2,2,],[4,5],[6,7,8],[9]]) What is the data type of X? 2/2

- ○ TensorFlow Constant
- ○ Eager Tensor
- ◉ Raged Tensor ✓
- ○ TensorFlow Variable

✓ Consider the following statements: B=tf.Variable([6.0, 7.0]) print(B.assign_mul([1,1]).numpy() 2/2

- ○ 9.8 7.5
- ○ 7.5 10.8
- ○ 5.0 6.0
- ◉ None of these ✓

✓ Consider the follwing statements: Model=keras.Sequential() Model.add(keras.Input(shape=(5))) Model.add(keras.Dense(16, activation='relu')) Model.add(keras.Dense(10, activation='sigmoid')) How many number of trainable parameters are having in the above model? 2/2

- ○ 760
- ◉ 8160 ✗
- ○ 800
- ○ 8170

Correct answer

- ◉ 8170

✓ If validation_split=0.2 in 'fit' statement then: a) 20 percent training data is used for testing.b) 20 percent training data is used for validation.c) 20 percent testing data is used for training.d) 20 percent testing data is used for validation. 2/2

- ○ 20 percent training data is used for testing
- ◉ 20 percent training data is used for validation. ✓
- ○ 20 percent testing data is used for training.
- ○ 20 percent testing data is used for validation.

✓ Consider the following statements: Layer= layers.Dense(16, activation='relu') print(Layer.weights) How many number of weights are there? 2/2

- ○ 20
- ○ 16
- ○ Error
- ◉ No Weight ✓

✓ Define a function, that receives an input tensor and do following operations 1) covert in lower case, 2) remove HTML line break tag
 if any, 3) remove any occurrence of punctuation sign and return the list contains only words from text. Input text:- Hi !!! I am a
MACHINE LEAARNING
 student. Output Text:- [hi,i,am,a,machine,learning,student] 5/5

```
import re
import tensorflow as tf
import string
import numpy as np
def fun(data):
  lowercase=tf.strings.lower(data)
  stripped_html=tf.strings.regex_replace(lowercase, '<br />', ' ')
  ans = tf.strings.regex_replace(stripped_html,
                                 '[%s]' % re.escape(string.punctuation),' ')
  return tf.strings.split(ans).numpy()

x = fun('Hi !!! I am a <br />MACHINE LEAARNING <br /> student')
y=np.array([x.decode() for x in x])
print(y)
```

✓ Create a model which takes input with shape = [32,32]. Apply first dense layer with 64 neurons, second layer with 32 neurons and then apply dropout layer with 35% dropout value. Consider 7 classes to classify the data. At the output layer, apply sigmoid activation function and in other layer, apply relu activation layer. 5/5

```
import tensorflow as tf
from tensorflow import keras
model=keras.Sequential()
model.add(keras.layers.Input(shape=(32,32)))
model.add(keras.layers.Dense(64,activation="relu"))
model.add(keras.layers.Dense(32,activation="relu"))
model.add(keras.layers.Dropout(0.35))
model.add(keras.layers.Dense(7,activation="sigmoid"))
```

✓ Write a program to save the parameters of model during training after 7 iterations. Consider total iterations to train the model are 80. 5/5

```
checkpoint_path = "training_2/cp-{epoch:04d}.ckpt" checkpoint_dir =
os.path.dirname(checkpoint_path) cp_callback =
tf.keras.callbacks.ModelCheckpoint(filepath=checkpoint_path, verbose=1,
save_weights_only=True,period=7) model = create_model()
model.save_weights(checkpoint_path.format(epoch=0)) model.fit(train_images,
train_labels,epochs=80, callbacks=[cp_callback],validation_data=
(test_images,test_labels),verbose=0)
```

✗

SET - B 0 of 30 points

✗ Which of following is correct output shape of tensor X, X=tf.ragged.constant([[4,5],[5,6,7,8],[2,3,4],[1,2]]) 0/1

- (None,5)
- (None,None)
- (4,5)
- (4,None)

✗ Which of the following code used to check TensorFlow was built with GPU support? 0/1

- print(tf.test.gpu_support_name())
- print(tf.test.built_with_gpu_support())
- print(tf.test.gpu_support())
- print(tf.test.is_built_with_gpu_support())

✗ Which function is used to remove the layers from sequential models: 0/1

- Model.pop()
- Model.Push()
- Model.Del()
- Model.POP()

✗ Flatten layer is used to 0/1

- To decrease the number of attribures
- Perform cross correlation operation
- To increase the number of attributes.
- To convert N-dimensional data into 1-dimensional data

✗ A tensorflow variable can be converted into tensor using ..... function. 0/1

- tf.convert_to_tensor(X)
- None of these
- tf.tensor(X)
- tf.eager_tensor()

✗ Consider the following statements: import tensorflow as tf X=tf.constant([“Gray Wolf”, “Quick Brown Fox”, “Lazy Dog”]) S=tf.strings.split(X, sep=” “) print(type(S)) 0/2

- Sparse Tensor
- TensorFlow String
- Eager Tensor
- Ragged Tensor

✗ Consider the following statements: A=tf.constant([[1,2],[3,4]]) B=tf.constant([[1,2],[3,4]]) C=A@Bprint(C.numpy()) 0/2

- [[4,3],[2,1]]
- [[7,10],[15, 22]]
- [[1,4],[9,16]]
- [[1,2],[3,4]]

✗ Consider the following statement: A=tf.variable([2.0, 3.0]) A.assign([4.1, 5.1]) Choose the correct option: 0/2

- assign needs to define.
- Error Occurs
- None of these.
- New values will be assigned to variable A.

✗ Which of the following is the correct statement for adding dense layer in sequential model using 512 neurons with activation = 'sigmoid' and name of the layer as "hidden_layer". 0/2

- Model.add(layers.Dense(units = 512, activation="sigmoid", name="hidden_layer")
- All of these
- Model.add(layer.dense(neurons = 512, activation_function="sigmoid", name="hidden_layer")
- Model.add(layers.dense(neurons = 512, activation_function="sigmoid", name="hidden_layer")

✗ Consider the follwing statement: Model.add(layers.Dropout(0.5)) What will happen by using above statement: 0/2

- 50 percent of neurons will become inactive during training
- 50 percent of bias values will become inactive during training
- 50 percent of bias values will become inactive during evaluation
- 50 percent of neurons will become inactive during evaluation

✗ Write a program to create model having 1 input layer, 1 hidden layer and 1 output layer in keras. Also write the code to find the optimal value of neurons in hidden layer and learning rate parameter. ···/5

✗ Consider a CSV file "test.csv" saved in your "D:\new folder. File contains 10 columns and 150 rows. Read the file in python and normalize the values of dataset. ···/5

✗ Consider a model "classifier" that has been trained to classify different flowers. Write the code to predict the class of flower consider image with size [28, 28]. ···/5

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