

VIT GRAND ASSESSMENT ARTIFICIAL INTELLIGENCE

Total points 28/30 

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0 of 0 points

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Registration Number *

20BIT0366

QUIZ BEGINS!!!!

28 of 30 points

✓ Which of the following is the correct way to declare a variable in Python? * 1/1

☐ var x = 5

☒ x = 5



☐ int x = 5

☐ declare x = 5

✓ What is the output of the following code snippet? * 1/1

```
my_list = [1, 2, 3, 4, 5]
```

```
print(my_list[1:3])
```

☐ [1, 2]

☒ [2, 3]



☐ [1, 2, 3]

☐ [2, 3, 4]



✓ `my_string = "Hello, World!" *`
`print(len(my_string))`

1/1

- ☒ 13
- ☐ 12
- ☐ 14
- ☐ 11



✗ What is the output of the following code snippet? *

```
x = 10
y = 5
print(x % y)
```

0/1

- ☐ 2
- ☐ 1
- ☒ 0
- ☐ 5



✓ What does the term "feature map" refer to in the context of CNNs? *

1/1

- ☐ The input image to the CNN
- ☐ The weights of the convolutional filters
- ☐ The final classification decision of the network
- ☒ The output of a convolutional layer



✓ What is the result of the following code snippet? *

1/1

```
my_list = [1, 2, 3, 4, 5]
my_list.append(6)
print(my_list)
```

- ☐ [1, 2, 3, 4, 5]
- ☒ [1, 2, 3, 4, 5, 6]
- ☐ [1, 2, 3, 4, 6]
- ☐ [6, 5, 4, 3, 2, 1]



✓ NumPy and Pandas are commonly used libraries for: *

1/1

- ☐ Machine learning
- ☐ Web development
- ☒ Data manipulation and analysis
- ☐ Game development



✓ In an LSTM, what is the purpose of the backpropagation? *

1/1

- ☒ Update the LSTM weights using gradient descent
- ☐ Compute the loss function at each time step
- ☐ Initialize the hidden state for training
- ☐ Determine the output of the LSTM layer



✓ Which library provides multidimensional array objects in Python? * 1/1

- ☒ NumPy
- ☐ Pandas
- ☐ SciPy
- ☐ Matplotlib



✗ What does NaN stand for in Pandas? * 0/1

- ☐ Not a Name
- ☐ Null and Not-a-Number
- ☐ Non-allocated Number
- ☒ No Available Number



✓ Which function is used to load a CSV file into a Pandas DataFrame? * 1/1

- ☒ read_csv()
- ☐ load_csv()
- ☐ import_csv()
- ☐ parse_csv()



✓ Which function is used to calculate the mean of a Pandas DataFrame column? *1/1

- ☒ mean()
- ☐ average()
- ☐ median()
- ☐ mean_value()



✓ Which type of neural network is primarily used for image recognition tasks? *1/1

- ☐ RNN
- ☐ MLP
- ☐ SNN
- ☒ CNN



✓ What is the purpose of dropout regularization in a CNN? * 1/1

- ☒ Prevent overfitting by randomly disabling neurons
- ☐ Introduce additional convolutional layers
- ☐ Decrease the number of feature maps
- ☐ Increase the learning rate during training



✓ What is transfer learning? *

1/1

- ☐ A technique for transferring data from one device to another
- ☒ A method to transfer knowledge learned from one task to another
- ☐ A process to transfer trained models to different programming languages
- ☐ A method to transfer data from one domain to another



✓ Which function in OpenCV is used to read an image from disk? *

1/1

- ☐ cv2.imshow()
- ☐ cv2.imwrite()
- ☐ cv2.resize()
- ☒ cv2.imread()



✓ What is the primary purpose of a convolutional layer in a CNN? *

1/1

- ☐ Non-linear transformation
- ☒ Feature extraction
- ☐ Classification
- ☐ Downsampling



✓ What is the default port number for Flask applications? *

1/1

- ☐ 8080
- ☒ 5000
- ☐ 80
- ☐ 443



✓ What is Flask? *

1/1

- ☐ A programming language
- ☐ A database management system
- ☒ A web framework for Python
- ☐ An operating system



✓ How can you render a template in Flask? *

1/1

- ☒ render_template('template.html')
- ☐ template('template.html')
- ☐ flask.render('template.html')
- ☐ flask.template('template.html')



✓ Which component of the LSTM is responsible for generating the output at *1/1 each time step?

- ☐ Cell state
- ☐ Input gate
- ☒ Output gate
- ☐ Forget gate



✓ Which of the following techniques is used to update the weights of a CNN *1/1 during the training process?

- ☒ Stochastic Gradient Descent (SGD)
- ☐ Principal Component Analysis (PCA)
- ☐ K-means clustering
- ☐ Naive Bayes classifier



✓ How can you access form data in Flask? * 1/1

- ☒ Using the request object
- ☐ Using the form object
- ☐ Using the flask.data object
- ☐ Using the FlaskForm object



✓ The VGG16 model was trained on which dataset(s)? *

1/1

- ☒ ImageNet
- ☐ CIFAR-10
- ☐ MNIST
- ☐ Both a) and b)



✓ What is the primary advantage of using pre-trained CNN models? *

1/1

- ☐ Faster training process
- ☒ Higher accuracy on unseen data
- ☐ Ability to handle variable input sizes
- ☐ Increased interpretability of the model



✓ How do you define a route in Flask? *

1/1

- ☒ @route('/path')
- ☐ #route('/path')
- ☐ route('/path')
- ☐ /route('/path')



✓ Which module in OpenCV is used for image processing? *

1/1

- ☒ cv2
- ☐ numpy
- ☐ os
- ☐ matplotlib



✓ What does the term "kernel" refer to in the context of a convolutional layer?

*1/1

- ☒ A set of learned weights applied to the input
- ☐ The input data passed through the activation function
- ☐ The output feature maps of the layer
- ☐ The pooling operation applied to the input



✓ What does OpenCV stand for? *

1/1

- ☐ Open Computer Vision
- ☐ Optical Character Vision
- ☒ Open Source Computer Vision
- ☐ OpenCV is not an acronym



✓ VGG16 is known for its: *

1/1

- ☒ Deep architecture with many layers
- ☐ High computational efficiency
- ☐ Low memory requirements
- ☐ None of the above



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