

# Module 1 Quiz

LATEST SUBMISSION GRADE

100%

1. Which of the following is not a computer vision task?

1 / 1 point

- ☒ Volumetric analysis
- ☐ Pose estimation
- ☐ Object detection
- ☐ Semantic segmentation

✓ Correct

2. Which deep learning framework is the GluonCV toolkit based on?

1 / 1 point

- ☐ Pytorch
- ☒ Apache MXNet
- ☐ Caffe
- ☐ Chainer

✓ Correct

3. Which of the following is untrue about the symbolic paradigm in deep learning frameworks?

1 / 1 point

- ☒ Symbolic programs do not need to be compiled before they can be executed
- ☐ Symbolic programs provide opportunities to optimize computational graphs
- ☐ Symbolic programs can be hard to debug when they throw an error
- ☐ Symbolic programs are often constructed with variable placeholders

✓ Correct

4. What command in the Gluon API of MXNet converts an imperative computational graph to a symbolic graph?

1 / 1 point

- ☐ .convert()
- ☐ .to\_symbol()
- ☒ .hybridize()
- ☐ .optimize()

✓ Correct

5. What area of machine learning currently achieves State of the Art performance in computer vision tasks?

1 / 1 point

- ☐ Reinforcement Learning
- ☐ Metric Learning
- ☐ Similarity Learning
- ☒ Deep Learning

✓ Correct

6. What do image classification models predict?

1 / 1 point

- ☐ A cluster centroid for the class of objects in the image
- ☐ A hierarchy for objects in the image
- ☐ Another image that is similar to the input image
- ☒ A predefined label for the image

✓ Correct

7. Which computer vision tasks predicts pixel level masks for each distinct class of objects in the image?

1 / 1 point

- ☐ Object extraction
- ☒ Semantic Segmentation
- ☐ Instance Segmentation
- ☐ Super-resolution imaging

✓ Correct

8. What discovery by Hubel and Wiesel and implemented by Fukushima in the Neocognitron is crucial to the success of modern deep learning based computer vision systems?

1 / 1 point

- ☐ Vision is intimately tied to recognition and understanding
- ☐ Vision is achieved by convolution in the human brain
- ☒ Vision is hierarchical and local at each level
- ☐ Vision involves extensive feature engineering

✓ Correct

9. What exactly led to the resurgence of neural network models and deep learning for computer vision tasks in 2012?

1 / 1 point

- ☐ Availability of large datasets thanks to the internet
- ☐ More powerful computational software and resources
- ☐ Hardware accelerators like GPUs
- ☒ All of the above

✓ Correct

10. Which computer vision task is most appropriate for localizing appearances of barcodes in an image?

1 / 1 point

- ☐ Image classification
- ☒ Object Detection
- ☐ Semantic Segmentation
- ☐ Instance Segmentation

✓ Correct