

## ✔ Congratulations! You passed!

**Grade**  
received 100%

**Latest Submission**  
Grade 100%

**To pass 75% or**  
higher

**Go to next item**

1. How many colour channels does a Grayscale image have ?

1 / 1 point

☒ 1

☐ 2

☐ 3

☐ 4

✔ **Correct**  
Correct

2. Which of the following generate Histograms for each region of an image separately using gradients and the orientation of pixel values?

1 / 1 point

☐ Support Vector Machines

☐ K-Nearest Neighbor

☒ Histogram of Oriented Gradients

☐ Softmax

✔ **Correct**  
Correct!

3. Support Vector Machines for Image classification may use a kernels. There are different types of Kernels, which of the following is not a type of Kernel?

1 / 1 point

- ☐ Linear
- ☐ Polynomial
- ☐ Radial Basis Function
- ☒ Histogram of Oriented Gradients

✓ **Correct**  
Correct!

4. In a sequence of array, what does the argmax function return?

1 / 1 point

- ☐ The sequence of array in ascending order
- ☐ It will return 0
- ☐ The index corresponding to the minimum value
- ☒ The index corresponding to the maximum value

✓ **Correct**  
Correct!

5. You train a Support Vector Machine and obtain an accuracy of 100% on the training data and 50% on the validation data. This is an example of:

1 / 1 point

- ☒ Overfitting
- ☐ Underfitting
- ☐ A good model

✓ **Correct**  
Correct!