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6 items

Raw test train SVM for Cats vs Dogs

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2 items

Cat Dog

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```
"IDLE Shell 3.11.1"
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\KIIT\Desktop\Programs\Dig Bhem\SVM for Cats vs Dogs.py ====
Found 200 images belonging to 2 classes.
0[1m1/2][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 2s/step -----0[0m 0[1m3s][0m 4s/step-----0[0m][37m][0m 0[1m
6s][0m 2s/step -----0[0m][37m][0m 0[1m0s][0m 2s/step -----0[0m 0[1m3s][0m 3s/step-----0[0m][37m][0m 0[1m
0[1m1/2][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 2s/step -----0[0m 0[1m3s][0m 3s/step-----0[0m][37m][0m 0[1m
5s][0m 2s/step -----0[0m][37m][0m 0[1m0s][0m 3s/step -----0[0m 0[1m6s][0m 7s/step-----0[0m][37m][0m 0[1m
0[1m1/2][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 4s/step -----0[0m 0[1m6s][0m 7s/step-----0[0m][37m][0m 0[1m
6s][0m 3s/step -----0[0m][37m][0m 0[1m0s][0m 4s/step -----0[0m 0[1m6s][0m 7s/step-----0[0m][37m][0m 0[1m
10s][0m 4s/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step
[LibSVM]Training time for SVM on 200 images: 1.14 seconds
Validation Accuracy: 1.0000
Classification Report:
      precision    recall  f1-score   support

   Cat           1.00        1.00        1.00        21
   Dog           1.00        1.00        1.00        19

 accuracy          1.00          1.00          1.00          40
 macro avg          1.00          1.00          1.00          40
weighted avg          1.00          1.00          1.00          40

0[1m1/10][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 204ms/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step
```

```
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0[1m1/10][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 204ms/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step
```

Figure 1

Predicted: Dog



(x, y) = (118.3, 100.7)
[120, 122, 111]

```
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6s][0m 2s/step -----0[0m][37m][0m 0[1m0s][0m 2s/step -----0[0m 0[1m3s][0m 3s/step-----0[0m][37m][0m 0[1m
5s][0m 2s/step -----0[0m][37m][0m 0[1m0s][0m 3s/step -----0[0m 0[1m6s][0m 7s/step-----0[0m][37m][0m 0[1m
0[1m1/2][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 4s/step -----0[0m 0[1m6s][0m 7s/step-----0[0m][37m][0m 0[1m
6s][0m 3s/step -----0[0m][37m][0m 0[1m0s][0m 4s/step -----0[0m 0[1m6s][0m 7s/step-----0[0m][37m][0m 0[1m
10s][0m 4s/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step
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0[1m1/10][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 204ms/step -----0[0m][37m][0m 0[1m0s][0m 204ms/step
The image 1.jpg is classified as: Dog
0[1m1/10][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 285ms/step -----0[0m][37m][0m 0[1m0s][0m 332ms/step
The image 10.jpg is classified as: Cat
0[1m1/10][0m 0[32m -----0[0m][37m][0m 0[1m0s][0m 150ms/step -----0[0m][37m][0m 0[1m0s][0m 190ms/step
```

Figure 1

Predicted: Cat

