

```
>> Train
```

```
Warning: The following positive images do not have any bounding boxes and will not be used for training:
```

```
A:\High-level
```

```
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_35.jpg
```

```
> In trainCascadeObjectDetector>populateTrainCascadeParams (line 371)
```

```
In trainCascadeObjectDetector (line 177)
```

```
In Train (line 26)
```

```
An earlier training session with the same outputXMLFileName
```

```
trained_model3.xml
```

```
appears to have been interrupted. You can do either of the following:
```

```
[1] Delete the earlier session's temporary files and folders  
and start training from the beginning
```

```
[2] Exit this function. To resume training from the earlier session  
use the following command:
```

```
trainCascadeObjectDetector('trained_model3.xml', 'resume')
```

```
Enter 1/2 [2]
```

```
1
```

```
Deleting earlier sessions's temporary files...
```

```
Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression must be a scalar or a character vector.'
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```
> In matlab.io.internal.imagesci.imjpginfo (line 53)
```

```
In imjpginfo (line 20)
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In imfinfo (line 234)
```

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In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
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Warning: ComponentsConfiguration tag value is invalid. Tag value returned as-is.
> In matlab.io.internal.tifftagsprocess>handleComponentsConfiguration (line 144)
In matlab.io.internal.tifftagsprocess>exiftagsprocess (line 58)
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Automatically setting ObjectTrainingSize to [33, 32]
Using at most 298 of 321 positive samples per stage
Using at most 596 negative samples per stage

--cascadeParams--
Training stage 1 of 16
[.....]
```

Used 298 positive and 596 negative samples  
Time to train stage 1: 272 seconds

Training stage 2 of 16  
[.....]  
Used 298 positive and 596 negative samples  
Time to train stage 2: 328 seconds

Training stage 3 of 16  
[.....]  
Used 298 positive and 596 negative samples  
Time to train stage 3: 684 seconds

Training stage 4 of 16  
[.....]  
Used 298 positive and 596 negative samples  
Time to train stage 4: 566 seconds

Training stage 5 of 16  
[.....]  
Used 298 positive and 596 negative samples  
Time to train stage 5: 745 seconds

Training stage 6 of 16  
[.....Exception "java.lang.↵  
ClassNotFoundException: com/intellij/codeInsight/editorActions/FoldingData"while ↵  
constructing DataFlavor for: application/x-java-jvm-local-objectref; class=com.↵  
intellij.codeInsight.editorActions.FoldingData  
Exception "java.lang.ClassNotFoundException:↵  
com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:↵  
application/x-java-jvm-local-objectref; class=com.intellij.codeInsight.editorActions.↵  
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com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl\$CopyPasteOptionsTransferabl↵  
eData"while constructing DataFlavor for: application/x-java-serialized-object;↵  
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.....]  
Used 298 positive and 596 negative samples  
Time to train stage 6: 376 seconds

Training stage 7 of 16  
[.....]  
Used 298 positive and 596 negative samples  
Time to train stage 7: 483 seconds

Training stage 8 of 16  
[.....]  
Used 298 positive and 596 negative samples  
Time to train stage 8: 711 seconds

Training stage 9 of 16

[.....]

Used 298 positive and 596 negative samples

Time to train stage 9: 509 seconds

Training stage 10 of 16

[.....]

Used 298 positive and 596 negative samples

Time to train stage 10: 432 seconds

Training stage 11 of 16

[.....]

Used 298 positive and 596 negative samples

Time to train stage 11: 458 seconds

Training stage 12 of 16

[.....]

Used 298 positive and 596 negative samples

Time to train stage 12: 459 seconds

Training stage 13 of 16

[.....Exception "java.lang.↵  
ClassNotFoundException: com/intellij/codeInsight/editorActions/FoldingData"while↵  
constructing DataFlavor for: application/x-java-jvm-local-objectref; class=com.↵  
intellij.codeInsight.editorActions.FoldingData↵  
Exception "java.lang.ClassNotFoundException:↵  
com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:↵  
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.....]

Used 298 positive and 596 negative samples

Time to train stage 13: 517 seconds

Training stage 14 of 16

[.....]

Used 297 positive and 594 negative samples

Time to train stage 14: 465 seconds

Training stage 15 of 16

[.....]

Used 296 positive and 592 negative samples

Time to train stage 15: 399 seconds

Training stage 16 of 16

[.....]

Used 295 positive and 590 negative samples

Time to train stage 16: 262 seconds

Training complete

>> Perf

poss3 =

262×2 table

imageFilename ↵

Hand

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prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\02\big\img_572.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1054.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1153.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1239.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1262.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1316.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1354.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1363.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1370.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1400.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\07\big\img_1414.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\10\big\img_144.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\10\big\img_150.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\10\big\img_561.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\10\big\img_569.jpg' ✓
```

```
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\10\big\img_576.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\08\10\big\img_579.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_32.jpg' ✓
}      {4×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_35.jpg' ✓
}      {0×0 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_38.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_89.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_96.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_159.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_180.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_184.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_318.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_348.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_359.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_371.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_449.jpg' ✓
}      {1×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_508.jpg' ✓
}      {3×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_525.jpg' ✓
}      {2×4 double}
      {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_652.jpg' ✓
}      {2×4 double}
```

```
{'A:\High-level'
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_810.jpg'
}    {2x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\1.jpg'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\3.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\4.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\5.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\6.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\7.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\8.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\9.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\10.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\11.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\12.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\13.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\14.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\15.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\16.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\21.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\22.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\23.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\24.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\31.png'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\32.png'
}    {1x4 double}
{'A:\High-level'
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\Hand_0004658.jpg'
}    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_9.
jpg'                                }    {1x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_12.
jpg'                                }    {2x4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_15.
```

```
jpg'                                }    {1×4 double}
    {'A:\High-level prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_28. ✓
jpg'                                }    {3×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_169.jpg' ✓
}    {5×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_172.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_192.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_216.jpg' ✓
}    {1×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_234.jpg' ✓
}    {1×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_279.jpg' ✓
}    {1×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_311.jpg' ✓
}    {1×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_313.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_320.jpg' ✓
}    {1×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_324.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_348.jpg' ✓
}    {3×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_367.jpg' ✓
}    {3×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_389.jpg' ✓
}    {1×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_395.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_420.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_421.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_499.jpg' ✓
}    {2×4 double}
    {'A:\High-level ✓
```

```
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_505.jpg' ✓  
} {4×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_529.jpg' ✓  
} {3×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_667.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_711.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_735.jpg' ✓  
} {3×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_743.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_785.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_805.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_893.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_944.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_985.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_1008.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_1154.jpg' ✓  
} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\p\2\img_1224.jpg' ✓  
} {2×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓  
212717.png'} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓  
212741.png'} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓  
212801.png'} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓  
212812.png'} {1×4 double}  
{'A:\High-level ✓  
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
```

```
212822.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
212840.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
212847.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
212929.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
212940.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213000.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213009.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213027.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213100.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213128.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213135.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213146.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213155.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213201.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213215.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213221.png'}      {1×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213301.png'}      {3×4 double}
    {'A:\High-level✓
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\temp\Screenshot 2023-12-05 ✓
213308.png'}      {3×4 double}
```

```
>> Train
```



Specified outputXMLFileName trained\_model3.xml  
already exists. What would you like to do?

[1] Delete existing xml file and start training from the beginning

[2] Exit this function without making any changes

Enter 1/2 [2]

2

>> Train

Warning: The following positive images do not have any bounding boxes and will not be used for training:

A:\High-level

prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img\_35.jpg

> In trainCascadeObjectDetector>populateTrainCascadeParams (line 371)

In trainCascadeObjectDetector (line 177)

In Train (line 28)

Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression must be a scalar or a character vector.'

> In matlab.io.internal.imagesci.imjpginfo (line 53)

In imjpginfo (line 20)

In imfinfo (line 234)

In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)

In vision.internal.cascadeTrainer.readImage (line 22)

In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)

In trainCascadeObjectDetector (line 218)

In Train (line 28)

Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression must be a scalar or a character vector.'

> In matlab.io.internal.imagesci.imjpginfo (line 53)

In imjpginfo (line 20)

In imfinfo (line 234)

In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)

In vision.internal.cascadeTrainer.readImage (line 22)

In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)

In trainCascadeObjectDetector (line 218)

In Train (line 28)

Warning: Tag has datatype format 'TIFF\_NOTYPE' and cannot be processed.

> In matlab.io.internal.imagesci.imjpginfo>incorporate\_exif\_metadata (line 68)

In matlab.io.internal.imagesci.imjpginfo (line 51)

In imjpginfo (line 20)

In imfinfo (line 234)

In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)

In vision.internal.cascadeTrainer.readImage (line 22)

In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)

In trainCascadeObjectDetector (line 218)

In Train (line 28)

Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression must be a scalar or a

```
character vector.'
> In matlab.io.internal.imagesci.imjpginfo (line 53)
In imjpginfo (line 20)
In imfinfo (line 234)
In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
In vision.internal.cascadeTrainer.readImage (line 22)
In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)
In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression
must be a scalar or a
character vector.'
> In matlab.io.internal.imagesci.imjpginfo (line 53)
In imjpginfo (line 20)
In imfinfo (line 234)
In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
In vision.internal.cascadeTrainer.readImage (line 22)
In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)
In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression
must be a scalar or a
character vector.'
> In matlab.io.internal.imagesci.imjpginfo (line 53)
In imjpginfo (line 20)
In imfinfo (line 234)
In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
In vision.internal.cascadeTrainer.readImage (line 22)
In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)
In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: Zero count for Copyright tag.
> In matlab.io.internal.imagesci.imjpginfo>incorporate_exif_metadata (line 68)
In matlab.io.internal.imagesci.imjpginfo (line 51)
In imjpginfo (line 20)
In imfinfo (line 234)
In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
In vision.internal.cascadeTrainer.readImage (line 22)
In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)
In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression
must be a scalar or a
character vector.'
> In matlab.io.internal.imagesci.imjpginfo (line 53)
In imjpginfo (line 20)
In imfinfo (line 234)
In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
In vision.internal.cascadeTrainer.readImage (line 22)
In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)
In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression
must be a scalar or a
character vector.'
```

```
> In matlab.io.internal.imagesci.imjpginfo (line 53)
In imjpginfo (line 20)
In imfinfo (line 234)
In vision.internal.cascadeTrainer.readImage>isImageIndexed (line 60)
In vision.internal.cascadeTrainer.readImage (line 22)
In trainCascadeObjectDetector>createNegativeInstancesFromFolder (line 652)
In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: Tag has datatype format 'TIFF_NOTYPE' and cannot be processed.
> In matlab.io.internal.imagesci.imjpginfo>incorporate_exif_metadata (line 68)
In matlab.io.internal.imagesci.imjpginfo (line 51)
In imjpginfo (line 20)
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Warning: Zero count for Copyright tag.
> In matlab.io.internal.imagesci.imjpginfo>incorporate_exif_metadata (line 68)
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In trainCascadeObjectDetector (line 218)
In Train (line 28)
Warning: ComponentsConfiguration tag value is invalid. Tag value returned as-is.
> In matlab.io.internal.tifftagsprocess>handleComponentsConfiguration (line 144)
In matlab.io.internal.tifftagsprocess>exiftagsprocess (line 58)
In matlab.io.internal.tifftagsprocess (line 20)
In matlab.io.internal.imagesci.imjpginfo>incorporate_exif_metadata (line 70)
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In trainCascadeObjectDetector (line 218)
In Train (line 28)

Automatically setting ObjectTrainingSize to [33, 32]
Using at most 322 of 347 positive samples per stage
Using at most 644 negative samples per stage

--cascadeParams--
Training stage 1 of 16
[...Exception "java.lang.ClassNotFoundException:
com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:
application/x-java-jvm-local-objectref; class=com.intellij.codeInsight.editorActions.
FoldingData
Exception "java.lang.ClassNotFoundException:
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application/x-java-jvm-local-objectref; class=com.intellij.codeInsight.editorActions.
FoldingData
Exception "java.lang.ClassNotFoundException:
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```
com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
Exception "java.lang.ClassNotFoundException:
com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
.....Exception "java.lang.
ClassNotFoundException: com/intellij/codeInsight/editorActions/FoldingData"while
constructing DataFlavor for: application/x-java-jvm-local-objectref; class=com.
intellij.codeInsight.editorActions.FoldingData
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com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:
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FoldingData
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eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
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com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
.....]
Used 322 positive and 644 negative samples
Time to train stage 1: 294 seconds

Training stage 2 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 2: 362 seconds

Training stage 3 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 3: 1191 seconds

Training stage 4 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 4: 1523 seconds

Training stage 5 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 5: 722 seconds

Training stage 6 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 6: 787 seconds
```

```
Training stage 7 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 7: 1074 seconds
```

```
Training stage 8 of 16
[.....]
Used 322 positive and 644 negative samples
Time to train stage 8: 850 seconds
```

```
Training stage 9 of 16
[.....]
Used 321 positive and 642 negative samples
Time to train stage 9: 647 seconds
```

```
Training stage 10 of 16
[.....]
Used 320 positive and 640 negative samples
Time to train stage 10: 604 seconds
```

```
Training stage 11 of 16
[.....]
Used 319 positive and 638 negative samples
Time to train stage 11: 528 seconds
```

```
Training stage 12 of 16
[.....]
Used 318 positive and 636 negative samples
Time to train stage 12: 982 seconds
```

```
Training stage 13 of 16
[.....]
Used 317 positive and 634 negative samples
Time to train stage 13: 959 seconds
```

```
Training stage 14 of 16
[.....]
Used 316 positive and 632 negative samples
Time to train stage 14: 840 seconds
```

```
Training stage 15 of 16
[.....]
Used 315 positive and 630 negative samples
Time to train stage 15: 780 seconds
```

```
Training stage 16 of 16
[.....]
Used 314 positive and 628 negative samples
Time to train stage 16: 952 seconds
```

```
Training complete
```

```
>> Perf
```

```
395          end
```

```
Exception "java.lang.ClassNotFoundException: ✎
```

```

com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:
application/x-java-jvm-local-objectref; class=com.intellij.codeInsight.editorActions.
FoldingData
Exception "java.lang.ClassNotFoundException:
com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:
application/x-java-jvm-local-objectref; class=com.intellij.codeInsight.editorActions.
FoldingData
Exception "java.lang.ClassNotFoundException:
com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
Exception "java.lang.ClassNotFoundException:
com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
Exception "java.lang.ClassNotFoundException: com/intellij/openapi/editor/RawText"while
constructing DataFlavor for: application/x-java-jvm-local-objectref; class=com.
intellij.openapi.editor.RawText
Exception "java.lang.ClassNotFoundException: com/intellij/openapi/editor/RawText"while
constructing DataFlavor for: application/x-java-jvm-local-objectref; class=com.
intellij.openapi.editor.RawText
>> Train2
Warning: Preallocation using data type 'char' creates a table variable that is a cell
array of character
vectors rather than a character array. Storing text data as character arrays in a
table is not
recommended. When working with text data in a table or a timetable, consider using a
string array or a
categorical array.
>> resultTable = vertcat(dt, possHand);
>> Train
Warning: Name is nonexistent or not a directory: A:\High-level
prommaing\Python\ADWM\Tracking\Detectros\DATASET_TRAIN\rotatedImgs\Hand_0004676.jpg
> In path (line 109)
In addpath (line 86)
In Train (line 27)
25 end
>> Train
Warning: The following positive images do not have any bounding boxes and will not be
used for training:

A:\High-level
prommaing\Python\ADWM\Tracking\Detectros\DATASETS\HUMAN4\2002\12\02\big\img_35.jpg

> In trainCascadeObjectDetector>populateTrainCascadeParams (line 371)
In trainCascadeObjectDetector (line 177)
In Train (line 31)
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Error using trainCascadeObjectDetector (line 252)
Error reading instance 1 from image 1, bounding box possibly out of image bounds.

Error in Train (line 31)
trainCascadeObjectDetector('trained_model5.xml',positive_ins,neg_dir,...

Exception "java.lang.ClassNotFoundException:
com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:
application/x-java-jvm-local-objectref; class=com.intellij.codeInsight.editorActions.
FoldingData
Exception "java.lang.ClassNotFoundException:
com/intellij/codeInsight/editorActions/FoldingData"while constructing DataFlavor for:
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FoldingData
Exception "java.lang.ClassNotFoundException:
com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
eData"while constructing DataFlavor for: application/x-java-serialized-object;
class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
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com/intellij/openapi/editor/impl/EditorCopyPasteHelperImpl$CopyPasteOptionsTransferabl
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class=com.intellij.openapi.editor.impl.
EditorCopyPasteHelperImpl$CopyPasteOptionsTransferableData
>> Train2
Warning: Preallocation using data type 'char' creates a table variable that is a cell
array of character
vectors rather than a character array. Storing text data as character arrays in a
table is not
recommended. When working with text data in a table or a timetable, consider using a
string array or a
categorical array.
>> resultTable = vertcat(dt, possHand);
>> Train
Warning: The following positive images do not have any bounding boxes and will not be
used for training:

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```

```
Automatically setting ObjectTrainingSize to [32, 43]
Using at most 1714 of 1843 positive samples per stage
Using at most 3428 negative samples per stage
```

```
--cascadeParams--
```

```
Training stage 1 of 16
```

```
[.....]
Used 1714 positive and 3428 negative samples
Time to train stage 1: 6290 seconds
```

```
Training stage 2 of 16
```

```
[.....]
Used 1714 positive and 3428 negative samples
Time to train stage 2: 4865 seconds
```

```
Training stage 3 of 16
```

```
[.....]
Used 1714 positive and 3428 negative samples
Time to train stage 3: 11504 seconds
```

```
Training stage 4 of 16
```

```
[.....]
Used 1714 positive and 3428 negative samples
Time to train stage 4: 7324 seconds
```

```
Training stage 5 of 16
```

```
[.....]
Used 1714 positive and 3428 negative samples
Time to train stage 5: 4024 seconds
```

```
Training stage 6 of 16
```

```
[.....]
Used 1709 positive and 3418 negative samples
Time to train stage 6: 4170 seconds
```

```
Training stage 7 of 16
```

```
[.....]
Used 1701 positive and 3402 negative samples
Time to train stage 7: 5157 seconds
```

```
Training stage 8 of 16
```

```
[.....]
Used 1693 positive and 3386 negative samples
Time to train stage 8: 4214 seconds
```

```
Training stage 9 of 16
```

```
[.....]
Used 1685 positive and 3370 negative samples
```

Time to train stage 9: 5642 seconds

Training stage 10 of 16

```
[.....Warning: Encountered a problem while processing Exif metadata: 'SWITCH
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character vector.'
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In Train (line 31)
.....]
Used 1677 positive and 3354 negative samples
Time to train stage 10: 5165 seconds
```

Training stage 11 of 16

```
[....Warning: Encountered a problem while processing Exif metadata: 'SWITCH
expression must be a scalar or a
character vector.'
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In trainCascadeObjectDetector (line 272)
In Train (line 31)
.....]
Used 1669 positive and 3338 negative samples
Time to train stage 11: 5299 seconds
```

Training stage 12 of 16

```
[..Warning: Encountered a problem while processing Exif metadata: 'SWITCH expression
must be a scalar or a
character vector.'
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.....]
Used 1661 positive and 765 negative samples
Time to train stage 12: 2317 seconds

Training stage 13 of 16
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In Train (line 31)
.....Warning:
Unable to generate a sufficient number of negative samples for this stage.
Consider reducing the number of stages, reducing the false alarm rate
or adding more negative images.
> In trainCascadeObjectDetector (line 272)
In Train (line 31)

Cannot find enough samples for training.
Training will halt and return cascade detector with 12 stages
Time to train stage 13: 82 seconds

Training complete
>> Perf
181         if (hasMissingCharInFont)
>>
```