

# CNN Working

```
66 steps_per_epoch=800,
67 epochs=25,
68 validation_data = test_set,
69 validation_steps = 6500
70 ...
71 model=classifier.fit(training_set,steps_per_epoch=1000,epochs=32,validation_data = test_set,validation_steps = 7500, batch_size = 'NULL')
72 #saving the model
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

.dll not found  
2021-10-27 19:22:04.905851: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'curand64\_10.dll'; dlerror: curand64\_10.dll not found  
2021-10-27 19:22:04.911666: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cusolver64\_11.dll'; dlerror: cusolver64\_11.dll not found  
2021-10-27 19:22:04.915312: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cusparses64\_11.dll'; dlerror: cusparses64\_11.dll not found  
2021-10-27 19:22:04.919465: W tensorflow/stream\_executor/platform/default/dso\_loader.cc:64] Could not load dynamic library 'cudnn64\_8.dll'; dlerror: cudnn64\_8.dll not found  
2021-10-27 19:22:04.922216: W tensorflow/core/common\_runtime/gpu/gpu\_device.cc:1825] Cannot dlopen some GPU libraries. Please make sure the missing libraries are installed properly if you would like to use GPU. Follow the guide at <https://www.tensorflow.org/install/gpu> for how to download and setup the required libraries for your platform.  
Skipping registering GPU devices...  
2021-10-27 19:22:04.928825: I tensorflow/core/platform/cpu\_feature\_guard.cc:142] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (on CPU) to use the following CPU instructions in performance-critical operations: AVX AVX2  
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.  
C:\Users\91996\AppData\Local\Programs\Python\Python39\lib\site-packages\keras\optimizer\_v2.py:355: UserWarning: The 'lr' argument is deprecated, use 'learning\_rate' instead.  
warnings.warn(  
Found 50002 images belonging to 33 classes.  
Found 7150 images belonging to 33 classes.  
2021-10-27 19:22:06.982764: I tensorflow/compiler/mlir/mlir\_graph\_optimization\_pass.cc:185] None of the MLIR Optimization Passes are enabled (registered 2)  
Epoch 1/32  
1000/1000 [=====] - ETA: 0s - loss: 2.0871 - accuracy: 0.3866WARNING:tensorflow:Your input ran out of data; interrupting training. Make sure that your dataset or generator can generate at least 'steps\_per\_epoch \* epochs' batches (in this case, 7500 batches). You may need to use the repeat() function when building your dataset.  
Epoch 2/32  
1000/1000 [=====] - 94s 93ms/step - loss: 2.0871 - accuracy: 0.3860 - val\_loss: 0.5070 - val\_accuracy: 0.8529  
Epoch 3/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.6520 - accuracy: 0.7842  
Epoch 4/32  
1000/1000 [=====] - 89s 89ms/step - loss: 0.4045 - accuracy: 0.8634  
Epoch 5/32  
50/1000 [>.....] - ETA: 1:25 - loss: 0.2868 - accuracy: 0.8934

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1000/1000 [=====] - 83s 83ms/step - loss: 0.1256 - accuracy: 0.9572  
Epoch 12/32  
1000/1000 [=====] - 79s 79ms/step - loss: 0.1150 - accuracy: 0.9600  
Epoch 13/32  
1000/1000 [=====] - 97s 97ms/step - loss: 0.1019 - accuracy: 0.9635  
Epoch 14/32  
1000/1000 [=====] - 95s 95ms/step - loss: 0.1038 - accuracy: 0.9633  
Epoch 15/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0914 - accuracy: 0.9683  
Epoch 16/32  
1000/1000 [=====] - 88s 88ms/step - loss: 0.0873 - accuracy: 0.9706  
Epoch 17/32  
1000/1000 [=====] - 88s 88ms/step - loss: 0.0841 - accuracy: 0.9702  
Epoch 18/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0797 - accuracy: 0.9729  
Epoch 19/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0770 - accuracy: 0.9713  
Epoch 20/32  
1000/1000 [=====] - 88s 88ms/step - loss: 0.0692 - accuracy: 0.9759  
Epoch 21/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0662 - accuracy: 0.9771  
Epoch 22/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0677 - accuracy: 0.9758  
Epoch 23/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0630 - accuracy: 0.9784  
Epoch 24/32  
1000/1000 [=====] - 87s 87ms/step - loss: 0.0616 - accuracy: 0.9787  
Epoch 25/32  
1000/1000 [=====] - 92s 92ms/step - loss: 0.0604 - accuracy: 0.9795  
Epoch 26/32  
1000/1000 [=====] - 109s 109ms/step - loss: 0.0563 - accuracy: 0.9808  
Epoch 27/32  
1000/1000 [=====] - 107s 107ms/step - loss: 0.0505 - accuracy: 0.9832  
Epoch 28/32  
1000/1000 [=====] - 108s 108ms/step - loss: 0.0551 - accuracy: 0.9815  
Epoch 29/32  
1000/1000 [=====] - 97s 97ms/step - loss: 0.0496 - accuracy: 0.9821  
Epoch 30/32  
1000/1000 [=====] - 97s 97ms/step - loss: 0.0475 - accuracy: 0.9849  
Epoch 31/32  
1000/1000 [=====] - 101s 101ms/step - loss: 0.0484 - accuracy: 0.9831  
Epoch 32/32  
1000/1000 [=====] - 98s 98ms/step - loss: 0.0443 - accuracy: 0.9849  
dict_keys(['loss', 'accuracy', 'val_loss', 'val_accuracy'])
```