New dataset - fault on Rails

1st training -

Found 560 images belonging to 2 classes.

Found 158 images belonging to 2 classes.

- val loss: 0.5398 - val accuracy: 0.9873

Epoch 10/100

2021-11-04 08:43:03.580479: I tensorflow/core/profiler/lib/profiler_session.cc:131] Profiler session initializing.

2021-11-04 08:43:03.580544: I tensorflow/core/profiler/lib/profiler_session.cc:146] Profiler session started.

2021-11-04 08:43:03.905446: I tensorflow/core/profiler/lib/profiler_session.cc:164] Profiler session tear down.

2021-11-04 08:43:03.905639: I tensorflow/core/profiler/internal/gpu/cupti_tracer.cc:1748] CUPTI activity buffer flushed

```
Epoch 1/100
0.7589 - val loss: 1.6921 - val accuracy: 0.6835
Epoch 2/100
- val loss: 1.3529 - val accuracy: 0.7152
Epoch 3/100
- val loss: 0.8615 - val accuracy: 0.8987
Epoch 4/100
- val_loss: 1.1242 - val_accuracy: 0.8291
Epoch 5/100
- val_loss: 1.0370 - val_accuracy: 0.8671
Epoch 6/100
- val_loss: 1.0077 - val_accuracy: 0.8354
Epoch 7/100
- val loss: 0.5373 - val accuracy: 0.9937
Epoch 8/100
- val_loss: 0.5259 - val_accuracy: 0.9810
Epoch 9/100
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- val_loss: 0.8812 - val_accuracy: 0.8861
Epoch 11/100
- val loss: 0.6300 - val accuracy: 0.9620
Epoch 12/100
- val loss: 0.8259 - val accuracy: 0.9241
Epoch 13/100
- val loss: 0.6996 - val accuracy: 0.9051
Epoch 14/100
- val_loss: 0.6433 - val_accuracy: 0.9557
Epoch 15/100
- val_loss: 0.4653 - val_accuracy: 0.9873
Epoch 16/100
- val loss: 0.6314 - val accuracy: 0.9430
Epoch 17/100
- val loss: 0.4658 - val accuracy: 0.9873
Epoch 18/100
- val loss: 0.5242 - val accuracy: 0.9873
Epoch 19/100
- val loss: 0.7428 - val accuracy: 0.9810
Epoch 20/100
- val loss: 0.5575 - val accuracy: 0.9747
Epoch 21/100
- val loss: 0.4603 - val accuracy: 0.9873
Epoch 22/100
- val loss: 0.7798 - val accuracy: 0.9051
Epoch 23/100
- val loss: 0.4581 - val accuracy: 0.9430
Epoch 24/100
- val_loss: 0.3670 - val_accuracy: 0.9810
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Epoch 25/100
- val loss: 0.4850 - val accuracy: 0.9810
Epoch 26/100
- val loss: 0.4179 - val accuracy: 0.9810
Epoch 27/100
- val loss: 0.4552 - val accuracy: 0.9620
Epoch 28/100
- val loss: 0.3736 - val accuracy: 0.9810
Epoch 29/100
- val loss: 1.0784 - val accuracy: 0.4937
Epoch 30/100
- val loss: 0.7490 - val_accuracy: 0.8861
Epoch 31/100
- val loss: 0.4261 - val accuracy: 0.9873
Epoch 32/100
- val loss: 0.4835 - val accuracy: 0.9873
Epoch 33/100
- val loss: 0.4126 - val accuracy: 0.9684
Epoch 34/100
- val_loss: 0.3796 - val_accuracy: 0.9873
Epoch 35/100
- val loss: 0.5305 - val accuracy: 0.9494
Epoch 36/100
- val loss: 1.0523 - val accuracy: 0.8797
Epoch 37/100
- val_loss: 0.3279 - val_accuracy: 0.9873
Epoch 38/100
- val loss: 0.5206 - val accuracy: 0.9430
Epoch 39/100
```

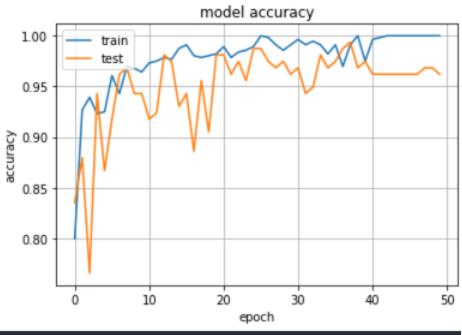
```
- val_loss: 0.3908 - val_accuracy: 0.9557
Epoch 40/100
- val loss: 0.5057 - val accuracy: 0.9684
Epoch 41/100
- val loss: 0.3586 - val accuracy: 0.9810
Epoch 42/100
- val loss: 0.3728 - val accuracy: 0.9747
Epoch 43/100
- val_loss: 0.4342 - val_accuracy: 0.9684
Epoch 44/100
- val_loss: 0.4187 - val_accuracy: 0.9620
Epoch 45/100
- val loss: 0.4987 - val accuracy: 0.9873
Epoch 46/100
- val loss: 0.3308 - val accuracy: 0.9873
Epoch 47/100
- val loss: 0.3651 - val accuracy: 0.9873
Epoch 48/100
- val loss: 0.5873 - val accuracy: 0.9557
Epoch 49/100
- val loss: 0.6464 - val accuracy: 0.9114
Epoch 50/100
- val loss: 0.3851 - val accuracy: 0.9747
Epoch 51/100
- val loss: 1.7686 - val accuracy: 0.8671
Epoch 52/100
- val loss: 0.5389 - val accuracy: 0.9241
Epoch 53/100
- val_loss: 0.4718 - val_accuracy: 0.9304
```

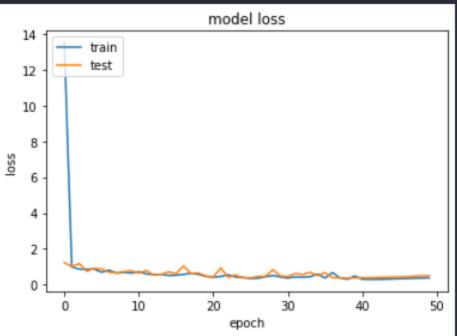
```
Epoch 54/100
- val loss: 0.3116 - val accuracy: 0.9873
Epoch 55/100
- val loss: 0.3570 - val accuracy: 0.9684
Epoch 56/100
- val_loss: 0.7999 - val_accuracy: 0.9873
Epoch 57/100
- val loss: 0.3201 - val accuracy: 0.9937
Epoch 58/100
- val loss: 0.2341 - val accuracy: 0.9937
Epoch 59/100
- val loss: 0.2531 - val accuracy: 0.9810
Epoch 60/100
- val loss: 0.4798 - val accuracy: 0.9873
Epoch 61/100
- val loss: 0.5018 - val accuracy: 0.9367
Epoch 62/100
- val_loss: 0.3131 - val_accuracy: 0.9684
Epoch 63/100
- val_loss: 0.3452 - val_accuracy: 0.9684
Epoch 64/100
- val_loss: 0.3077 - val_accuracy: 0.9684
Epoch 65/100
- val loss: 0.5526 - val accuracy: 1.0000
Epoch 66/100
- val_loss: 0.3776 - val_accuracy: 0.9937
Epoch 67/100
- val_loss: 0.4192 - val_accuracy: 0.9810
Epoch 68/100
```

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- val_loss: 0.4676 - val_accuracy: 0.9873
Epoch 69/100
- val loss: 0.3106 - val accuracy: 0.9747
Epoch 70/100
- val loss: 0.4043 - val accuracy: 0.9873
Epoch 71/100
- val loss: 0.2948 - val accuracy: 0.9810
Epoch 72/100
- val_loss: 0.8076 - val_accuracy: 0.8797
Epoch 73/100
- val_loss: 0.3337 - val_accuracy: 0.9747
Epoch 74/100
- val loss: 0.6958 - val accuracy: 0.9937
Epoch 75/100
- val loss: 0.3466 - val accuracy: 0.9684
Epoch 76/100
- val loss: 0.6717 - val accuracy: 0.9684
Epoch 77/100
- val loss: 0.3550 - val accuracy: 0.9810
Epoch 78/100
- val loss: 0.3160 - val accuracy: 0.9810
Epoch 79/100
- val loss: 0.3327 - val accuracy: 0.9810
Epoch 80/100
- val loss: 0.7575 - val accuracy: 0.9620
Epoch 81/100
- val loss: 0.3822 - val accuracy: 0.9620
Epoch 82/100
- val_loss: 0.3013 - val_accuracy: 0.9810
```

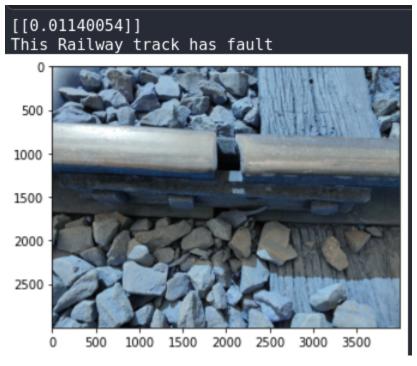
```
Epoch 83/100
- val loss: 0.4453 - val accuracy: 0.9557
Epoch 84/100
- val loss: 0.3502 - val accuracy: 0.9810
Epoch 85/100
- val loss: 0.3133 - val accuracy: 0.9747
Epoch 86/100
- val loss: 0.3147 - val accuracy: 0.9873
Epoch 87/100
- val loss: 0.2756 - val accuracy: 0.9937
Epoch 88/100
- val loss: 0.4478 - val_accuracy: 0.9620
Epoch 89/100
- val loss: 0.3959 - val accuracy: 0.9684
Epoch 90/100
- val loss: 1.1441 - val accuracy: 0.9051
Epoch 91/100
- val_loss: 0.3319 - val_accuracy: 0.9810
Epoch 92/100
- val_loss: 0.3592 - val_accuracy: 1.0000
Epoch 93/100
- val loss: 0.2580 - val accuracy: 1.0000
Epoch 94/100
- val loss: 0.2691 - val accuracy: 1.0000
Epoch 95/100
- val_loss: 0.4479 - val_accuracy: 1.0000
Epoch 96/100
- val loss: 0.2756 - val accuracy: 0.9937
Epoch 97/100
```

- val_loss: 0.2349 - val_accuracy: 0.993









Training -2 - dataset - sleepers

Epoch 1/100

```
2021-11-04 19:52:52.812101: I tensorflow/stream executor/cuda/cuda dnn.cc:3691 Loaded
cuDNN version 8005
0.7459 - val loss: 1.1987 - val accuracy: 0.8321
Epoch 2/100
0.8378 - val loss: 1.1641 - val accuracy: 0.7250
Epoch 3/100
0.8786 - val loss: 1.2695 - val accuracy: 0.7000
Epoch 4/100
0.8755 - val loss: 0.9822 - val accuracy: 0.8821
Epoch 5/100
0.9347 - val loss: 0.8529 - val accuracy: 0.9143
Epoch 6/100
0.9459 - val loss: 0.7810 - val accuracy: 0.9429
Epoch 7/100
0.9418 - val loss: 1.2803 - val accuracy: 0.7250
Epoch 8/100
0.9480 - val loss: 0.8581 - val accuracy: 0.9000
Epoch 9/100
0.9500 - val loss: 0.6654 - val accuracy: 0.9357
Epoch 10/100
0.9745 - val loss: 0.7352 - val accuracy: 0.9464
Epoch 11/100
0.9673 - val loss: 0.5828 - val accuracy: 0.9679
Epoch 12/100
123/123 [============================] - 317s 3s/step - loss: 0.6314 - accuracy:
0.9745 - val loss: 0.6852 - val accuracy: 0.9214
Epoch 13/100
0.9776 - val loss: 0.6413 - val accuracy: 0.9571
Epoch 14/100
0.9714 - val loss: 0.5656 - val accuracy: 0.9571
```

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Epoch 15/100
0.9969 - val loss: 0.5361 - val accuracy: 0.9714
Epoch 16/100
0.9878 - val loss: 0.6855 - val accuracy: 0.9429
Epoch 17/100
0.9684 - val_loss: 0.6023 - val_accuracy: 0.9357
Epoch 18/100
0.9827 - val loss: 0.6461 - val accuracy: 0.9429
Epoch 19/100
0.9908 - val loss: 0.5692 - val accuracy: 0.9571
Epoch 20/100
0.9878 - val loss: 0.5783 - val accuracy: 0.9536
Epoch 21/100
0.9939 - val loss: 0.5395 - val accuracy: 0.9714
Epoch 22/100
123/123 [==============] - 309s 3s/step - loss: 0.5193 - accuracy:
0.9837 - val loss: 0.5417 - val accuracy: 0.9750
Epoch 23/100
123/123 [===============================] - 302s 2s/step - loss: 0.4640 - accuracy:
0.9949 - val loss: 0.5433 - val accuracy: 0.9643
Epoch 24/100
0.9908 - val loss: 0.7189 - val accuracy: 0.9429
Epoch 25/100
0.9867 - val loss: 0.7229 - val accuracy: 0.9321
Epoch 26/100
0.9786 - val loss: 0.6126 - val accuracy: 0.9500
Epoch 27/100
123/123 [================================] - 315s 3s/step - loss: 0.5776 - accuracy:
0.9806 - val loss: 0.5251 - val accuracy: 0.9607
Epoch 28/100
0.9939 - val loss: 0.5058 - val accuracy: 0.9643
Epoch 29/100
```

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0.9990 - val loss: 0.5566 - val accuracy: 0.9500
Epoch 30/100
0.9908 - val loss: 0.6070 - val accuracy: 0.9464
Epoch 31/100
0.9918 - val loss: 0.5183 - val accuracy: 0.9679
Epoch 32/100
0.9959 - val loss: 0.7077 - val accuracy: 0.9571
Epoch 33/100
0.9878 - val loss: 0.5331 - val accuracy: 0.9393
Epoch 34/100
0.9918 - val loss: 0.5106 - val accuracy: 0.9714
Epoch 35/100
0.9929 - val loss: 0.5558 - val accuracy: 0.9607
Epoch 36/100
0.9929 - val loss: 0.5364 - val accuracy: 0.9786
Epoch 37/100
0.9918 - val loss: 0.6368 - val accuracy: 0.9893
Epoch 38/100
0.9888 - val loss: 0.6479 - val accuracy: 0.9750
Epoch 39/100
0.9959 - val loss: 0.4951 - val accuracy: 0.9929
Epoch 40/100
0.9980 - val loss: 0.5405 - val accuracy: 0.9643
Epoch 41/100
0.9939 - val loss: 0.7406 - val accuracy: 0.9536
Epoch 42/100
0.9929 - val loss: 0.4960 - val accuracy: 0.9750
Epoch 43/100
0.9867 - val loss: 0.6098 - val accuracy: 0.9500
```

```
Epoch 44/100
0.9929 - val loss: 0.4808 - val accuracy: 0.9857
Epoch 45/100
0.9969 - val loss: 0.4999 - val accuracy: 0.9786
Epoch 46/100
0.9959 - val loss: 0.5827 - val accuracy: 0.9536
Epoch 47/100
0.9918 - val loss: 0.5421 - val accuracy: 0.9786
Epoch 48/100
0.9827 - val loss: 0.6020 - val accuracy: 0.9679
Epoch 49/100
0.9980 - val loss: 0.5683 - val accuracy: 0.9679
Epoch 50/100
0.9980 - val loss: 0.5388 - val accuracy: 0.9786
Epoch 51/100
0.9980 - val loss: 0.5961 - val accuracy: 0.9679
Epoch 52/100
123/123 [===============================] - 321s 3s/step - loss: 0.4962 - accuracy:
1.0000 - val loss: 0.5840 - val accuracy: 0.9821
Epoch 53/100
1.0000 - val loss: 0.6080 - val accuracy: 0.9857
Epoch 54/100
0.9990 - val loss: 0.6248 - val accuracy: 0.9786
Epoch 55/100
0.9990 - val loss: 0.9326 - val accuracy: 0.9393
Epoch 56/100
0.9908 - val loss: 0.6788 - val accuracy: 0.9607
Epoch 57/100
0.9908 - val loss: 0.5058 - val accuracy: 0.9679
Epoch 58/100
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0.9857 - val loss: 0.5538 - val accuracy: 0.9679
Epoch 59/100
0.9949 - val loss: 0.4307 - val accuracy: 0.9714
Epoch 60/100
0.9929 - val loss: 0.4998 - val accuracy: 0.9714
Epoch 61/100
0.9990 - val loss: 0.5179 - val accuracy: 0.9714
Epoch 62/100
0.9990 - val loss: 0.6798 - val accuracy: 0.9679
Epoch 63/100
0.9949 - val loss: 0.6099 - val accuracy: 0.9643
Epoch 64/100
0.9990 - val loss: 0.5875 - val accuracy: 0.9571
Epoch 65/100
0.9959 - val loss: 0.6106 - val accuracy: 0.9679
Epoch 66/100
0.9980 - val loss: 0.6034 - val accuracy: 0.9714
Epoch 67/100
0.9990 - val loss: 0.5971 - val accuracy: 0.9714
Epoch 68/100
0.9939 - val loss: 0.7956 - val accuracy: 0.9464
Epoch 69/100
0.9816 - val loss: 0.9909 - val accuracy: 0.9036
Epoch 70/100
0.9959 - val loss: 0.4844 - val accuracy: 0.9607
Epoch 71/100
0.9949 - val loss: 0.6053 - val accuracy: 0.9643
Epoch 72/100
0.9959 - val loss: 0.5725 - val accuracy: 0.9536
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Epoch 73/100
0.9949 - val loss: 0.5626 - val accuracy: 0.9679
Epoch 74/100
0.9959 - val loss: 0.5956 - val accuracy: 0.9714
Epoch 75/100
0.9980 - val_loss: 0.5902 - val_accuracy: 0.9643
Epoch 76/100
0.9990 - val loss: 0.5905 - val accuracy: 0.9679
Epoch 77/100
1.0000 - val loss: 0.6211 - val accuracy: 0.9714
Epoch 78/100
0.9949 - val loss: 0.6668 - val_accuracy: 0.9607
Epoch 79/100
0.9918 - val loss: 0.6677 - val accuracy: 0.9393
Epoch 80/100
0.9959 - val loss: 0.6301 - val accuracy: 0.9500
Epoch 81/100
123/123 [===============================] - 316s 3s/step - loss: 0.4695 - accuracy:
0.9980 - val loss: 0.5755 - val accuracy: 0.9750
Epoch 82/100
0.9847 - val loss: 0.6204 - val accuracy: 0.9786
Epoch 83/100
0.9959 - val loss: 0.5133 - val accuracy: 0.9607
Epoch 84/100
0.9969 - val loss: 0.5054 - val accuracy: 0.9714
Epoch 85/100
123/123 [===============================] - 314s 3s/step - loss: 0.4455 - accuracy:
1.0000 - val loss: 0.5351 - val accuracy: 0.9714
Epoch 86/100
0.9959 - val loss: 0.5469 - val accuracy: 0.9679
Epoch 87/100
```

```
0.9949 - val loss: 0.7460 - val accuracy: 0.9500
Epoch 88/100
1.0000 - val_loss: 0.5806 - val_accuracy: 0.9714
Epoch 89/100
1.0000 - val loss: 0.6095 - val accuracy: 0.9750
Epoch 90/100
1.0000 - val loss: 0.6373 - val accuracy: 0.9750
Epoch 91/100
0.9888 - val loss: 0.8211 - val accuracy: 0.9500
Epoch 92/100
0.9939 - val loss: 0.6512 - val accuracy: 0.9607
Epoch 93/100
0.9990 - val loss: 0.6656 - val accuracy: 0.9250
Epoch 94/100
0.9949 - val loss: 0.5236 - val accuracy: 0.9607
Epoch 95/100
0.9990 - val loss: 0.5760 - val accuracy: 0.9536
Epoch 96/100
0.9990 - val loss: 0.5602 - val accuracy: 0.9643
Epoch 97/100
0.9990 - val loss: 0.6100 - val accuracy: 0.9571
Epoch 98/100
1.0000 - val loss: 0.6507 - val accuracy: 0.9571
Epoch 99/100
1.0000 - val loss: 0.6684 - val accuracy: 0.9643
Epoch 100/100
1.0000 - val loss: 0.7186 - val accuracy: 0.9643
```