

05\_06\_2:32:40PM

Custom model, input shape 480 x 480

```
model = Sequential([

    layers.experimental.preprocessing.Rescaling(1./255, input_shape=(img_height, img_width,

layers.Conv2D(64, 3, padding='same', activation='relu'),
    layers.MaxPooling2D(),
    layers.Conv2D(32, 3, padding='same', activation='relu'),
    layers.MaxPooling2D(),

    layers.Conv2D(16, 3, padding='same', activation='relu'),
    layers.MaxPooling2D(),

    layers.Flatten(),

    layers.Dense(128, activation='relu'),
    layers.Dense(num_classes)
])
```

## Stats

Total Tests: 133  
correct predictions: 19  
incorrect predictions: 114  
Percentage correct: 14.29%

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Most missed predictions

Broken Wire: 19

Good: 19

No Wires: 19

One Third Wire: 19

Two Third Wires: 19

Unknown Debris: 19

## Model Summary

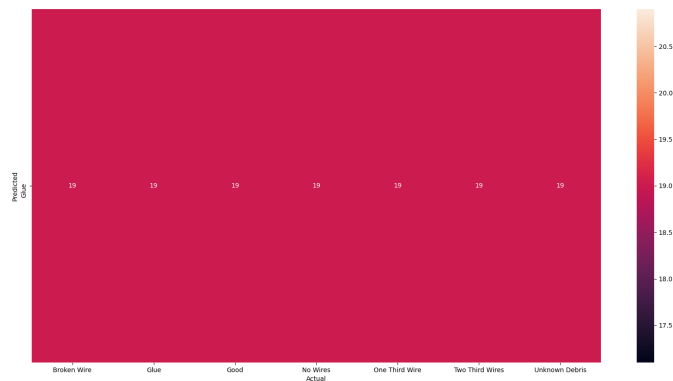
Model: "sequential"

Layer (type)	Output Shape	Param #
rescaling (Rescaling)	(None, 480, 480, 3)	0
conv2d (Conv2D)	(None, 480, 480, 64)	1792
max_pooling2d (MaxPooling2D)	(None, 240, 240, 64)	0
conv2d_1 (Conv2D)	(None, 240, 240, 32)	18464

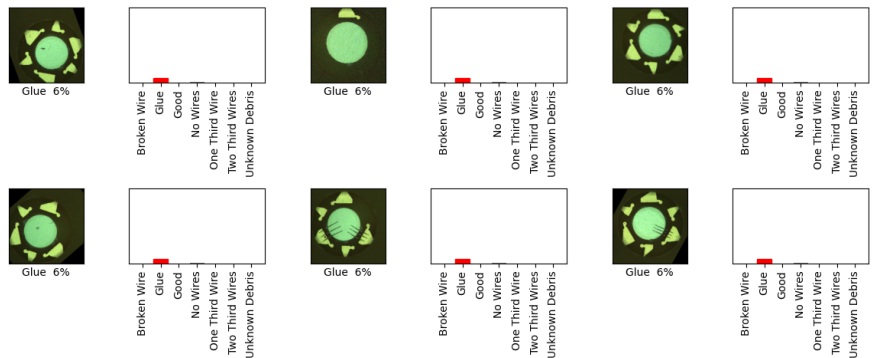
```

-----
max_pooling2d_1 (MaxPooling2 (None, 120, 120, 32)      0
conv2d_2 (Conv2D)             (None, 120, 120, 16)    4624
-----
max_pooling2d_2 (MaxPooling2 (None, 60, 60, 16)      0
flatten (Flatten)             (None, 57600)          0
dense (Dense)                 (None, 128)         7372928
-----
dense_1 (Dense)               (None, 7)           903
=====
Total params: 7,398,711 Trainable params: 7,398,711 Non-trainable
params: 0
-----

```



### Confusion Matrix



### Random Samples

```

### Dataframe predictions
score predicted actual confidence path 0 False
Glue One Third Wire 0.060296 one_thirds_wires/augmented_image_3.jpg 1
False Glue One Third Wire 0.060389 one_thirds_wires/augmented_image_2.jpg
2 False Glue One Third Wire 0.060296 one_thirds_wires/augmented_image_1.jpg
3 False Glue One Third Wire 0.060286 one_thirds_wires/augmented_image_5.jpg

```

4 False Glue One Third Wire 0.060251 one\_thirds\_wires/augmented\_image\_4.jpg  
.. ... 128 False Glue Two Third Wires 0.060290 two\_thirds\_wire/augmented\_image\_12.jpg  
129 False Glue Two Third Wires 0.060285 two\_thirds\_wire/augmented\_image\_16.jpg  
130 False Glue Two Third Wires 0.060328 two\_thirds\_wire/augmented\_image\_17.jpg  
131 False Glue Two Third Wires 0.060353 two\_thirds\_wire/augmented\_image\_15.jpg  
132 False Glue Two Third Wires 0.060360 two\_thirds\_wire/augmented\_image\_14.jpg  
[133 rows x 5 columns] ““