

06\_02\_2:49:12PM

Homebrew model trained on my server. Less accurate

## Stats

Total Tests: 2020  
correct predictions: 803  
incorrect predictions: 1217  
Percentage correct: 39.75%

=====  
Most missed predictions

Broken Wire: 146  
Glue: 121  
Good: 33  
No Wires: 252  
One Third Wire: 193  
Two Third Wires: 229  
Unknown Debris: 243

## Model Summary

Model: "sequential"

Layer (type)	Output Shape	Param #
rescaling (Rescaling)	(None, 480, 480, 3)	0
conv2d (Conv2D)	(None, 480, 480, 16)	448
conv2d_1 (Conv2D)	(None, 480, 480, 16)	2320
max_pooling2d (MaxPooling2D)	(None, 240, 240, 16)	0
conv2d_2 (Conv2D)	(None, 240, 240, 16)	2320
conv2d_3 (Conv2D)	(None, 240, 240, 16)	2320
max_pooling2d_1 (MaxPooling2D)	(None, 120, 120, 16)	0
conv2d_4 (Conv2D)	(None, 120, 120, 32)	4640
conv2d_5 (Conv2D)	(None, 120, 120, 32)	9248
batch_normalization (Batch Normalization)	(None, 120, 120, 32)	128
max_pooling2d_2 (MaxPooling2D)	(None, 60, 60, 32)	0
conv2d_6 (Conv2D)	(None, 60, 60, 32)	9248
conv2d_7 (Conv2D)	(None, 60, 60, 32)	9248
max_pooling2d_3 (MaxPooling2D)	(None, 30, 30, 32)	0
conv2d_8 (Conv2D)	(None, 30, 30, 32)	9248

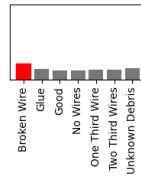
conv2d_9 (Conv2D)	(None, 30, 30, 32)	9248	
max_pooling2d_4 (MaxPooling2D)	(None, 15, 15, 32)	0	
conv2d_10 (Conv2D)	(None, 15, 15, 32)	9248	
conv2d_11 (Conv2D)	(None, 15, 15, 32)	9248	
max_pooling2d_5 (MaxPooling2D)	(None, 7, 7, 32)	0	
conv2d_12 (Conv2D)	(None, 7, 7, 32)	9248	
conv2d_13 (Conv2D)	(None, 7, 7, 32)	9248	
max_pooling2d_6 (MaxPooling2D)	(None, 3, 3, 32)	0	
conv2d_14 (Conv2D)	(None, 3, 3, 64)	18496	
max_pooling2d_7 (MaxPooling2D)	(None, 1, 1, 64)	0	
flatten (Flatten)	(None, 64)	0	
dense (Dense)	(None, 128)	8320	
dropout (Dropout)	(None, 128)	0	
dense_1 (Dense)	(None, 32)	4128	
dense_2 (Dense)	(None, 32)	1056	
dense_3 (Dense)	(None, 7)	231	
Total params: 127,639 Trainable params: 127,575 Non-trainable params: 64			



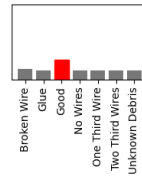
### Confusion Matrix



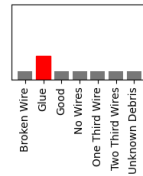
Broken Wire 21%



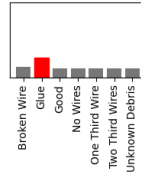
Good 26%



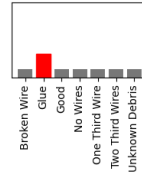
Glue 31%



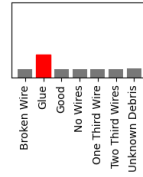
Glue 27%



Glue 31%



Glue 30%



### Random Samples