```
Model: "sequential"

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 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 48, 48, 32)        544

 conv2d_1 (Conv2D)           (None, 48, 48, 32)        16416

 conv2d_2 (Conv2D)           (None, 48, 48, 64)        32832

 conv2d_3 (Conv2D)           (None, 48, 48, 64)        65600

 conv2d_4 (Conv2D)           (None, 48, 48, 64)        65600

 conv2d_5 (Conv2D)           (None, 48, 48, 64)        65600

 max_pooling2d (MaxPooling2  (None, 24, 24, 64)        0
 D)

 conv2d_6 (Conv2D)           (None, 24, 24, 128)       131200

 conv2d_7 (Conv2D)           (None, 24, 24, 128)       262272

 conv2d_8 (Conv2D)           (None, 24, 24, 128)       262272

 conv2d_9 (Conv2D)           (None, 24, 24, 128)       262272

 max_pooling2d_1 (MaxPoolin  (None, 12, 12, 128)       0
 g2D)

 conv2d_10 (Conv2D)          (None, 12, 12, 256)       524544

 conv2d_11 (Conv2D)          (None, 12, 12, 256)       1048832

 conv2d_12 (Conv2D)          (None, 12, 12, 256)       1048832

 conv2d_13 (Conv2D)          (None, 12, 12, 256)       1048832

 max_pooling2d_2 (MaxPoolin  (None, 6, 6, 256)         0
 g2D)

 flatten (Flatten)           (None, 9216)              0

 dropout (Dropout)           (None, 9216)              0

 batch_normalization (Batch  (None, 9216)              36864
 Normalization)

 dense (Dense)               (None, 32)                294944

 dropout_1 (Dropout)         (None, 32)                0

 batch_normalization_1 (Bat  (None, 32)                128
 chNormalization)

 dense_1 (Dense)             (None, 32)                1056

 dense_2 (Dense)             (None, 4)                 132

=================================================================
Total params: 5168772 (19.72 MB)
Trainable params: 5150276 (19.65 MB)
Non-trainable params: 18496 (72.25 KB)
```

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