Model: "multi_input_model_v4"

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 Layer (type)                   Output Shape         Param #     Connected to
=================================================================================================
 cnn_input (InputLayer)         [(None, 256, 256, 1  0           []
                                )]

 conv2d (Conv2D)                (None, 256, 256, 16  160         ['cnn_input[0][0]']
                                )

 activation (Activation)        (None, 256, 256, 16  0           ['conv2d[0][0]']
                                )

 batch_normalization (BatchNorm (None, 256, 256, 16  64          ['activation[0][0]']
 alization)                     )

 max_pooling2d (MaxPooling2D)   (None, 128, 128, 16  0           ['batch_normalization[0][0]']
                                )

 conv2d_1 (Conv2D)              (None, 128, 128, 32  4640        ['max_pooling2d[0][0]']
                                )

 activation_1 (Activation)      (None, 128, 128, 32  0           ['conv2d_1[0][0]']
                                )

 batch_normalization_1 (BatchNo (None, 128, 128, 32  128         ['activation_1[0][0]']
 rmalization)                   )

 max_pooling2d_1 (MaxPooling2D)  (None, 64, 64, 32)   0           ['batch_normalization_1[0][0]']

 conv2d_2 (Conv2D)              (None, 64, 64, 64)   18496       ['max_pooling2d_1[0][0]']

 activation_2 (Activation)      (None, 64, 64, 64)   0           ['conv2d_2[0][0]']

 batch_normalization_2 (BatchNo (None, 64, 64, 64)   256         ['activation_2[0][0]']
 rmalization)

 max_pooling2d_2 (MaxPooling2D)  (None, 32, 32, 64)   0           ['batch_normalization_2[0][0]']

 conv2d_3 (Conv2D)              (None, 32, 32, 128)  73856       ['max_pooling2d_2[0][0]']

 activation_3 (Activation)      (None, 32, 32, 128)  0           ['conv2d_3[0][0]']

 batch_normalization_3 (BatchNo (None, 32, 32, 128)  512         ['activation_3[0][0]']
 rmalization)

 max_pooling2d_3 (MaxPooling2D)  (None, 16, 16, 128)  0           ['batch_normalization_3[0][0]']

 flatten (Flatten)              (None, 32768)        0           ['max_pooling2d_3[0][0]']

 dense_1 (Dense)                (None, 32)           1048608     ['flatten[0][0]']

 activation_4 (Activation)      (None, 32)           0           ['dense_1[0][0]']

 batch_normalization_4 (BatchNo (None, 32)           128         ['activation_4[0][0]']
 rmalization)

 dropout (Dropout)              (None, 32)           0           ['batch_normalization_4[0][0]']

 dense_2 (Dense)                (None, 8)            264         ['dropout[0][0]']

 activation_5 (Activation)      (None, 8)            0           ['dense_2[0][0]']

 batch_normalization_5 (BatchNo (None, 8)            32          ['activation_5[0][0]']
 rmalization)

 dropout_1 (Dropout)            (None, 8)            0           ['batch_normalization_5[0][0]']

 mlp_input (InputLayer)         [(None, 4)]          0           []

 dense_3 (Dense)                (None, 4)            36          ['dropout_1[0][0]']
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dense (Dense)	(None, 15)	75	['mlp_input[0][0]']
activation_6 (Activation)	(None, 4)	0	['dense_3[0][0]']
concatenate (Concatenate)	(None, 19)	0	['dense[0][0]', 'activation_6[0][0]']
dense_4 (Dense)	(None, 32)	640	['concatenate[0][0]']
dense_5 (Dense)	(None, 32)	1056	['dense_4[0][0]']
class_output (Dense)	(None, 15)	495	['dense_5[0][0]']

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Total params: 1,149,446
Trainable params: 1,148,886
Non-trainable params: 560