

Model: "ITA_YOLO"

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	(None, 120, 160, 3)	0	-
conv_1 (Conv2D)	(None, 120, 160, 8)	216	input_1[0][0]
norm_1 (BatchNormalizatio...	(None, 120, 160, 8)	32	conv_1[0][0]
leaky_relu_1 (LeakyReLU)	(None, 120, 160, 8)	0	norm_1[0][0]
conv_2 (Conv2D)	(None, 120, 160, 8)	576	leaky_relu_1[0][0]
norm_2 (BatchNormalizatio...	(None, 120, 160, 8)	32	conv_2[0][0]
leaky_relu_2 (LeakyReLU)	(None, 120, 160, 8)	0	norm_2[0][0]
conv_3 (Conv2D)	(None, 120, 160, 16)	1,152	leaky_relu_2[0][0]
norm_3 (BatchNormalizatio...	(None, 120, 160, 16)	64	conv_3[0][0]
leaky_relu_3 (LeakyReLU)	(None, 120, 160, 16)	0	norm_3[0][0]
max_pool_3 (MaxPooling2D)	(None, 60, 80, 16)	0	leaky_relu_3[0][0]
conv_4 (Conv2D)	(None, 60, 80, 32)	4,608	max_pool_3[0][0]
norm_4 (BatchNormalizatio...	(None, 60, 80, 32)	128	conv_4[0][0]
leaky_relu_4 (LeakyReLU)	(None, 60, 80, 32)	0	norm_4[0][0]
max_pool_4 (MaxPooling2D)	(None, 30, 40, 32)	0	leaky_relu_4[0][0]
conv_5 (Conv2D)	(None, 30, 40, 64)	18,432	max_pool_4[0][0]
norm_5 (BatchNormalizatio...	(None, 30, 40, 64)	256	conv_5[0][0]
leaky_relu_5 (LeakyReLU)	(None, 30, 40, 64)	0	norm_5[0][0]
max_pool_5 (MaxPooling2D)	(None, 15, 20, 64)	0	leaky_relu_5[0][0]
conv_6 (Conv2D)	(None, 15, 20, 64)	36,864	max_pool_5[0][0]
norm_6 (BatchNormalizatio...	(None, 15, 20, 64)	256	conv_6[0][0]
leaky_relu_6 (LeakyReLU)	(None, 15, 20, 64)	0	norm_6[0][0]
max_pool_6 (MaxPooling2D)	(None, 15, 20, 64)	0	leaky_relu_6[0][0]
conv_7 (Conv2D)	(None, 15, 20, 128)	73,728	max_pool_6[0][0]
norm_7 (BatchNormalizatio...	(None, 15, 20, 128)	512	conv_7[0][0]
leaky_relu_7 (LeakyReLU)	(None, 15, 20, 128)	0	norm_7[0][0]
conv_skip (Conv2D)	(None, 15, 20, 128)	8,192	max_pool_6[0][0]
conv_8 (Conv2D)	(None, 15, 20, 256)	294,912	leaky_relu_7[0][0]
norm_skip (BatchNormalizatio...	(None, 15, 20, 128)	512	conv_skip[0][0]
norm_8 (BatchNormalizatio...	(None, 15, 20, 256)	1,024	conv_8[0][0]
leaky_relu_skip (LeakyReLU)	(None, 15, 20, 128)	0	norm_skip[0][0]
leaky_relu_8 (LeakyReLU)	(None, 15, 20, 256)	0	norm_8[0][0]
concat (Concatenate)	(None, 15, 20, 384)	0	leaky_relu_skip[...] leaky_relu_8[0][...]
conv_9 (Conv2D)	(None, 15, 20, 10)	3,850	concat[0][0]

Total params: 445,346 (1.70 MB)
Trainable params: 443,938 (1.69 MB)
Non-trainable params: 1,408 (5.50 KB)