	Output Shape			
	) [(None, 32, 128, 1	 L)] O		
conv2d (Conv2D)	(None, 32, 128, 64	4) 640		
max_pooling2d (MaxPooling2D) (None, 16, 64, 64) 0				
conv2d_1 (Conv2D)	(None, 16, 64, 12	28) 73856		
max_pooling2d_1 (N	MaxPooling2 (None, 8, 3	32, 128) 0		
conv2d_2 (Conv2D)	(None, 8, 32, 256	5) 295168		
conv2d_3 (Conv2D)	(None, 8, 32, 256	5) 590080		
max_pooling2d_2 (MaxPooling2 (None, 4, 32, 256) 0				
conv2d_4 (Conv2D)	(None, 4, 32, 512	2) 1180160		
batch_normalization	n (BatchNo (None, 4, 32	2, 512) 2048		
conv2d_5 (Conv2D)	(None, 4, 32, 512	2) 2359808		
batch_normalization	n_1 (Batch (None, 4, 32,	, 512) 2048		
max_pooling2d_3 (MaxPooling2 (None, 2, 32, 512) 0				

conv2d_6 (Conv2D) (No	ne, 1, 31, 512)	1049088		
lambda (Lambda) (Non	e, 31, 512) 0			
bidirectional (Bidirectional (None, 31, 512) 1574912				
bidirectional_1 (Bidirection (N	one, 31, 512)	1574912		
dense (Dense) (None,	31, 79) 405	27		
Total params: 8,743,247				
Trainable params: 8,741,199				
Non-trainable params: 2,048				
Model: "model_1"				
Layer (type) Output	Shape Param	# Connected to		
input_1 (InputLayer) [(N	one, 32, 128, 1)] 0			
conv2d (Conv2D) (No	ne, 32, 128, 64)  6	40 input_1[0][0]		
max_pooling2d (MaxPooling2	O) (None, 16, 64,	64) 0 conv2d[0][	[0]	

conv2d_1 (Conv2D)	- (None, 16, 64, 128) 73856	max_pooling2d[0][0]
max_pooling2d_1 (Max	- Pooling2D) (None, 8, 32, 128) 0	conv2d_1[0][0]
conv2d_2 (Conv2D)	- (None, 8, 32, 256) 295168	max_pooling2d_1[0][0]
conv2d_3 (Conv2D)	(None, 8, 32, 256) 590080	conv2d_2[0][0]
max_pooling2d_2 (Max	- Pooling2D) (None, 4, 32, 256) 0	conv2d_3[0][0]
conv2d_4 (Conv2D)	(None, 4, 32, 512) 1180160	max_pooling2d_2[0][0]
batch_normalization (Ba	- atchNorma (None, 4, 32, 512) 20	48 conv2d_4[0][0]
conv2d_5 (Conv2D)	(None, 4, 32, 512) 2359808	batch_normalization[0][0]
batch_normalization_1	- (BatchNor (None, 4, 32, 512) 204	48 conv2d_5[0][0]
max_pooling2d_3 (Max	- Pooling2D) (None, 2, 32, 512) 0	batch_normalization_1[0][0]

conv2d_6 (Conv2D)	(None, 1, 31, 512) 1049088 max_pooling2d_3[0][0]
lambda (Lambda)	(None, 31, 512) 0 conv2d_6[0][0]
bidirectional (Bidirection	nal) (None, 31, 512) 1574912 lambda[0][0]
bidirectional_1 (Bidirect	ional) (None, 31, 512) 1574912 bidirectional[0][0]
dense (Dense)	(None, 31, 79) 40527 bidirectional_1[0][0]
true_labels (InputLayer)	[(None, 19)] 0
input_length (InputLaye	r) [(None, 1)] 0
label_length (InputLayer	) [(None, 1)] 0
ctc (Lambda)	(None, 1) 0 dense[0][0]  true_labels[0][0]  input_length[0][0]  label_length[0][0]

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Total params: 8,743,247	
Trainable params: 8,741,199	
Non-trainable params: 2,048	