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Epoch 1/50		
1407/1407 - 558s - loss: 4.8463 - sparse_top_k_categorical_accuracy: 0.2209 - va		
l_loss: 4.1047 - val_sparse_top_k_categorical_accuracy: 0.3274		
Epoch 2/50		
1407/1407 - 550s - loss: 3.6963 - sparse_top_k_categorical_accuracy: 0.4058 - va		
l_loss: 3.3439 - val_sparse_top_k_categorical_accuracy: 0.4820		
Epoch 3/50		
1407/1407 - 548s - loss: 3.1793 - sparse_top_k_categorical_accuracy: 0.5360 - va		
l_loss: 2.8671 - val_sparse_top_k_categorical_accuracy: 0.6138		
Epoch 4/50		
1407/1407 - 547s - loss: 2.8652 - sparse_top_k_categorical_accuracy: 0.6166 - va		
l_loss: 2.7123 - val_sparse_top_k_categorical_accuracy: 0.6562		
Epoch 5/50		
1407/1407 - 548s - loss: 2.6498 - sparse_top_k_categorical_accuracy: 0.6670 - va		
l_loss: 2.6213 - val_sparse_top_k_categorical_accuracy: 0.6736		
Epoch 6/50		
1407/1407 - 553s - loss: 2.4943 - sparse_top_k_categorical_accuracy: 0.7024 - va		
l_loss: 2.3515 - val_sparse_top_k_categorical_accuracy: 0.7336		
Epoch 7/50		
1407/1407 - 549s - loss: 2.3380 - sparse_top_k_categorical_accuracy: 0.7357 - va		
l_loss: 2.2155 - val_sparse_top_k_categorical_accuracy: 0.7600		
Epoch 8/50		
1407/1407 - 547s - loss: 2.2271 - sparse_top_k_categorical_accuracy: 0.7620 - va		
l_loss: 2.0761 - val_sparse_top_k_categorical_accuracy: 0.7920		
Epoch 9/50		
1407/1407 - 547s - loss: 2.1153 - sparse_top_k_categorical_accuracy: 0.7832 - va		
l_loss: 2.0784 - val_sparse_top_k_categorical_accuracy: 0.7886		
Epoch 10/50		
1407/1407 - 546s - loss: 2.0237 - sparse_top_k_categorical_accuracy: 0.8001 - va		
l_loss: 2.0184 - val_sparse_top_k_categorical_accuracy: 0.8006		
Epoch 11/50		
1407/1407 - 548s - loss: 1.9421 - sparse_top_k_categorical_accuracy: 0.8153 - va		
l_loss: 1.9437 - val_sparse_top_k_categorical_accuracy: 0.8230		
Epoch 12/50		
1407/1407 - 548s - loss: 1.8569 - sparse_top_k_categorical_accuracy: 0.8323 - va		
l_loss: 1.8504 - val_sparse_top_k_categorical_accuracy: 0.8284		
Epoch 13/50		
1407/1407 - 552s - loss: 1.7854 - sparse_top_k_categorical_accuracy: 0.8448 - va		
l_loss: 1.9561 - val_sparse_top_k_categorical_accuracy: 0.8136		
Epoch 14/50		
1407/1407 - 547s - loss: 1.7126 - sparse_top_k_categorical_accuracy: 0.8579 - va		
l_loss: 1.8940 - val_sparse_top_k_categorical_accuracy: 0.8240		
Epoch 15/50		
1407/1407 - 539s - loss: 1.6422 - sparse_top_k_categorical_accuracy: 0.8694 - va		
l_loss: 1.8467 - val_sparse_top_k_categorical_accuracy: 0.8358		
Epoch 16/50		
1407/1407 - 503s - loss: 1.5792 - sparse_top_k_categorical_accuracy: 0.8811 - va		
l_loss: 1.8459 - val_sparse_top_k_categorical_accuracy: 0.8374		
Epoch 17/50		
1407/1407 - 545s - loss: 1.5125 - sparse_top_k_categorical_accuracy: 0.8911 - va		
l_loss: 1.8398 - val_sparse_top_k_categorical_accuracy: 0.8432		
Epoch 18/50		
1407/1407 - 543s - loss: 1.4519 - sparse_top_k_categorical_accuracy: 0.9008 - va		
l_loss: 1.7931 - val_sparse_top_k_categorical_accuracy: 0.8530		
Epoch 19/50		
1407/1407 - 516s - loss: 1.3937 - sparse_top_k_categorical_accuracy: 0.9092 - va		
l_loss: 1.8359 - val_sparse_top_k_categorical_accuracy: 0.8434		
Epoch 20/50		
1407/1407 - 543s - loss: 1.3385 - sparse_top_k_categorical_accuracy: 0.9188 - va		
l_loss: 1.8708 - val_sparse_top_k_categorical_accuracy: 0.8448		
Epoch 21/50		
1407/1407 - 546s - loss: 1.2860 - sparse_top_k_categorical_accuracy: 0.9246 - va		

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l_loss: 1.7184 - val_sparse_top_k_categorical_accuracy: 0.8632		
Epoch 22/50		
1407/1407 - 544s - loss: 1.2433 - sparse_top_k_categorical_accuracy: 0.9302 - va		
l_loss: 1.7458 - val_sparse_top_k_categorical_accuracy: 0.8592		
Epoch 23/50		
1407/1407 - 544s - loss: 1.1948 - sparse_top_k_categorical_accuracy: 0.9374 - va		
l_loss: 1.7774 - val_sparse_top_k_categorical_accuracy: 0.8574		
Epoch 24/50		
1407/1407 - 545s - loss: 1.1464 - sparse_top_k_categorical_accuracy: 0.9439 - va		
l_loss: 1.6832 - val_sparse_top_k_categorical_accuracy: 0.8678		
Epoch 25/50		
1407/1407 - 538s - loss: 1.1138 - sparse_top_k_categorical_accuracy: 0.9482 - va		
l_loss: 1.7822 - val_sparse_top_k_categorical_accuracy: 0.8632		
Epoch 26/50		
1407/1407 - 538s - loss: 1.0718 - sparse_top_k_categorical_accuracy: 0.9513 - va		
l_loss: 1.8786 - val_sparse_top_k_categorical_accuracy: 0.8488		
Epoch 27/50		
1407/1407 - 560s - loss: 1.0290 - sparse_top_k_categorical_accuracy: 0.9572 - va		
l_loss: 1.8121 - val_sparse_top_k_categorical_accuracy: 0.8600		
Model: "model"		
Layer (type)	Output Shape	Param #
batch_normalization (BatchNo multiple		256
conv2d (Conv2D)	multiple	1792
re_lu (ReLU)	multiple	0
batch_normalization_1 (Batch multiple		256
conv2d_1 (Conv2D)	multiple	36928
re_lu_1 (ReLU)	multiple	0
dropout (Dropout)	multiple	0
max_pooling2d (MaxPooling2D) multiple		0
batch_normalization_2 (Batch multiple		512
conv2d_2 (Conv2D)	multiple	73856
re_lu_2 (ReLU)	multiple	0
batch_normalization_3 (Batch multiple		512
conv2d_3 (Conv2D)	multiple	147584
re_lu_3 (ReLU)	multiple	0
dropout_1 (Dropout)	multiple	0
max_pooling2d_1 (MaxPooling2 multiple		0
batch_normalization_4 (Batch multiple		1024
conv2d_4 (Conv2D)	multiple	295168
re_lu_4 (ReLU)	multiple	0
batch_normalization_5 (Batch multiple		1024

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conv2d_5 (Conv2D)	multiple	590080	
re_lu_5 (ReLU)	multiple	0	
dropout_2 (Dropout)	multiple	0	
max_pooling2d_2 (MaxPooling2D)	multiple	0	
batch_normalization_6 (Batch Normalization)	multiple	2048	
conv2d_6 (Conv2D)	multiple	1180160	
re_lu_6 (ReLU)	multiple	0	
batch_normalization_7 (Batch Normalization)	multiple	2048	
conv2d_7 (Conv2D)	multiple	2359808	
re_lu_7 (ReLU)	multiple	0	
dropout_3 (Dropout)	multiple	0	
max_pooling2d_3 (MaxPooling2D)	multiple	0	
flatten (Flatten)	multiple	0	
dense (Dense)	multiple	2098176	
dropout_4 (Dropout)	multiple	0	
re_lu_8 (ReLU)	multiple	0	
dense_1 (Dense)	multiple	102500	
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Total params: 6,893,732			
Trainable params: 6,889,892			
Non-trainable params: 3,840			
313/313 - 23s - loss: 1.6981 - sparse_top_k_categorical_accuracy: 0.8616			