

3.2 Model Architecture:

Model: "model_1"			
Layer (type)	Output Shape	Param #	Connected to
reviews (InputLayer)	[(None,)]	0	[]
plot_synopsis (InputLayer)	[(None,)]	0	[]
keras_layer (KerasLayer)	{'input_mask': (None, 128), 'input_word_ids': (None, 128), 'input_type_ids': (None, 128)}	0	['reviews[0][0]', 'plot_synopsis[0][0]']
keras_layer_1 (KerasLayer)	{'default': (None, 768), 'pooled_output': (None, 768), 'encoder_outputs': [(None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768), (None, 128, 768)], 'sequence_output': (None, 128, 768)}	1094822 41	['keras_layer[1][0]', 'keras_layer[1][1]', 'keras_layer[1][2]', 'keras_layer[2][0]', 'keras_layer[2][1]', 'keras_layer[2][2]']
tf.concat (TFOpLambda)	(None, 1536)	0	['keras_layer_1[1][13]', 'keras_layer_1[2][13]']
bdropout (Dropout)	(None, 1536)	0	['tf.concat[0][0]']
dense_5 (Dense)	(None, 256)	393472	['bdropout[0][0]']
dropout_3 (Dropout)	(None, 256)	0	['dense_5[0][0]']
dense_6 (Dense)	(None, 128)	32896	['dropout_3[0][0]']
dropout_4 (Dropout)	(None, 128)	0	['dense_6[0][0]']
dense_7 (Dense)	(None, 64)	8256	['dropout_4[0][0]']
dropout_5 (Dropout)	(None, 64)	0	['dense_7[0][0]']
dense_8 (Dense)	(None, 32)	2080	['dropout_5[0][0]']
dense_9 (Dense)	(None, 16)	528	['dense_8[0][0]']
output (Dense)	(None, 1)	17	['dense_9[0][0]']

Total params: 109919498 (419.31 MB)			
Trainable params: 109919489 (419.31 MB)			
Non-trainable params: 1 (1.00 Byte)			

Fig 3.6 Model Architecture