



Figure S1: Detailed neural network model formulation, visual representation.

Layer (type)	Output Shape	Param #
embedding_7 (Embedding)	(None, 40, 10)	240
conv1d_7 (Conv1D)	(None, 40, 32)	992
bidirectional_7 (Bidirectional)	(None, 40, 32)	6272
flatten_7 (Flatten)	(None, 1280)	0
dense_21 (Dense)	(None, 32)	40992
dropout_7 (Dropout)	(None, 32)	0
dense_22 (Dense)	(None, 16)	528
dense_23 (Dense)	(None, 1)	17
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Total params: 49,041		
Trainable params: 49,041		
Non-trainable params: 0		

Figure S2: Neural network model formulation with number of parameters featured in each layer, and in total.