Discussion Results of 14-04 crossValidationIncreasingWindow

Layer (type) Output Shape Param # Connected to

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input\_3 (InputLayer) (10, 10, 2400) 0

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attention\_vec (Dense) (10, 10, 1) 2401 input\_3[0][0]

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dot\_3 (Dot) (10, 1, 2400) 0 attention\_vec[0][0]

input\_3[0][0]

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lambda\_5 (Lambda) (1, 10, 2400) 0 dot\_3[0][0]

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dropout\_5 (Dropout) (1, 10, 2400) 0 lambda\_5[0][0]

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lstm\_3 (LSTM) (1, 10, 64) 631040 dropout\_5[0][0]

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dropout\_6 (Dropout) (1, 10, 64) 0 lstm\_3[0][0]

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lambda\_6 (Lambda) (10, 64) 0 dropout\_6[0][0]

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dense\_3 (Dense) (10, 1) 65 lambda\_6[0][0]

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Total params: 633,506

Trainable params: 633,506

To think about   
To do  
Working on

No Regularization No Dropout

* Similar trend of Fix Window, i hope this is a proof for both the model and the cross validation technique used
* In this case used smoller memory dim at max 256
* 64 best result learning 10-5 615 against 60
* 128 best result learning 10-5 617 against 60
* 256 best result learning 10-5 62 against 60
* The trend of ‘Problem find max acc’ is more or less the same with high and low learning rate. May be a little stronger in extreme high and extreme low but less in the middle infact in the best results often it appears only for few times. Could be useful to reason about this
* Problem with find max acc is a little stronger than in fixwindow think about it

Regularization No Dropout

* Problem with find max acc seems decreasing a little with midle range regularization and then increases another time with high regularization think about it
* The more regularization i put the worse result i achieve, never outperforming the baseline Is it caused by model too simple? Let’s try with more complicated one (increase memory) working on it.. Worked on int but simulation stopped before doing model selection also with dropout>0 for server’s problem