

Student ID yz12120

Mark Scheme						
Section	Question		Marks		Marker Comments	
	Number	Task	Got	Max		
1 - Cells	1a	LSTM Init	4	4		
	1b	LSTM forward	12	12		
	1c	GRU Init	4	4		
	1d	GRU Forward	10	10		
2 - Models	2a	RNN LSTM Init	5	5	You are correctly passing the sequence through the reverse cells in reverse order, however, as you are appending to outs_rev, and do not reverse the final list, our code takes outs_rev[0], such that only the first pass through the first cell is actually utilized.	
	2b	RNN GRU Init	2	2		
	2c	RNN Tanh Init	2	2		
	3d	RNN ReLU Init	2	2		
	2e	RNN Forward	16	16		
	2f	BiDirRNN Init	8	8		
	2g	BiDirRNN Forward	10	10		
3 - Theory	1a	Vanishing Grad Explanation	4	4	When relu gradients = 0, this typically causes "Dead neurons" which is slightly distinct from vanishing gradients Very nice :)	
	1b	Vanishing Activations	2	2		
	1c	Non-vanishing Activations	2	2		
	1d	Explanation of ReLU etc.	2	2		
	2	Vanilla RNN vs LSTM	8	8		
	3a	Label Graph	2	2		
	3b	Explain	2	2		
	4a	Model Use-cases	3	3		
Nice work!					CW Total	100 /100

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