Hyperparameter	Possible values	Best configuration
Depth	1, 2, 3	3
Bidirectional	True, False	True
Hidden neurons	$1 - 500$	74
Epochs	$1 - 500$	53
Dropout rate	$0 - 0.5$ (0.1 increments)	0.3
Weight regularisation	None, $l1$, $l2$, $l1$ and $l2$	$l2$
Bias regularisation	None, $l1$, $l2$, $l1$ and $l2$	None
Batch size	32, 64, 128, 256	64