

# Parameters

Embedding Layer — parameters

$$= 640,000$$

LSTM, Parameters

64 memory cells  
Input Size 64 — from previous layer } + (add)  
64 bias for each neuron

Formula:

$$4 \times (\text{units} \times (\text{Input size} + \text{units}) + \text{unit})$$

$$4 \times 64 \times (128) + 64$$

$$4 \times (64 \times 128) + 64$$

$$4 \times (8192 + 64)$$

$$4 \times 8256 = 33024$$