NEURAL NETWORK

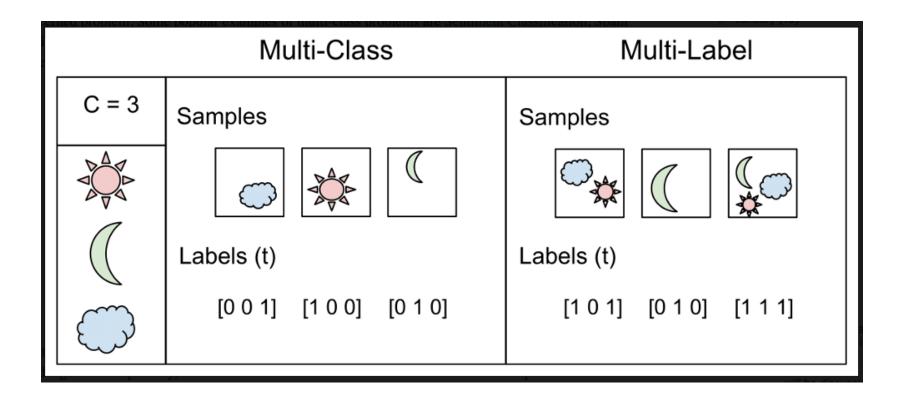
Regression



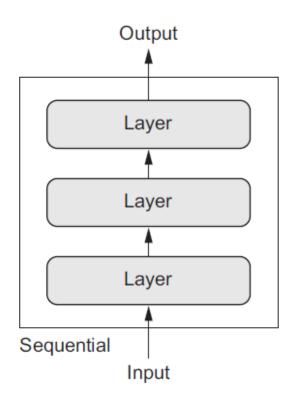
Functions and Parameters

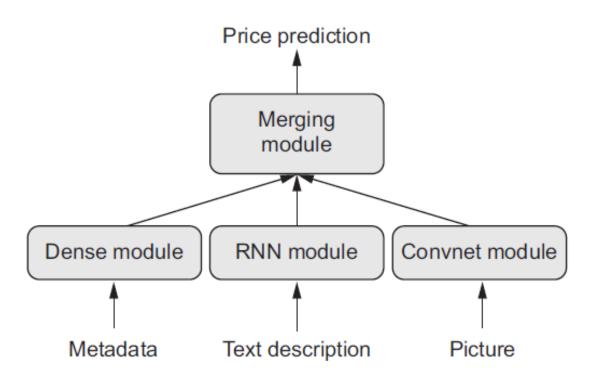
- Activation Functions (last layer?)
- Metrics
- Network Structure
- Pre-processing

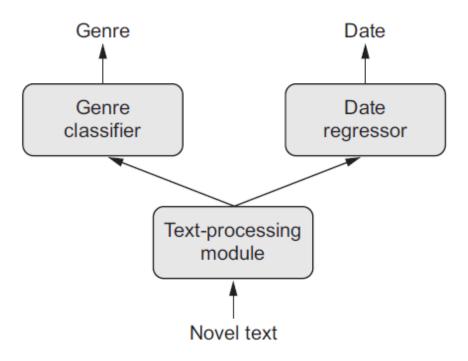
Multi Label Predictions

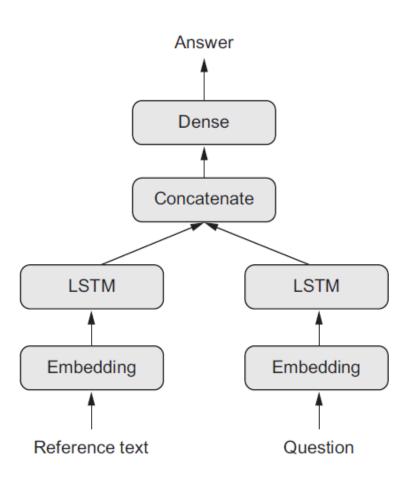


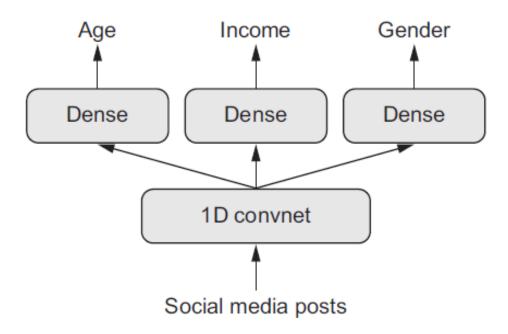
Sequential Model





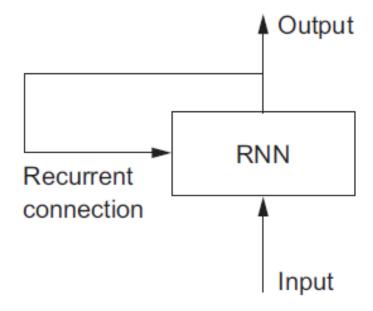




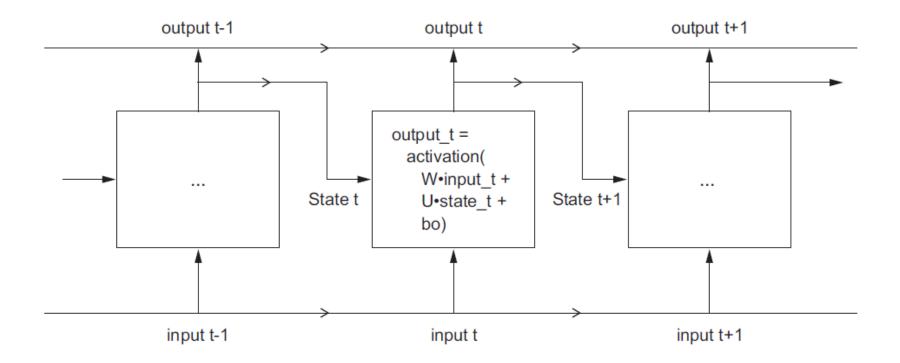


RNN

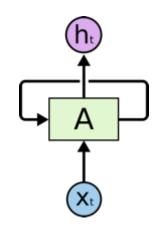
- Feed Forward Network ~no memory
- Perfect for "static" data
- What if we have a "sequence-type" data
- RNN ~ keep history in a "state"

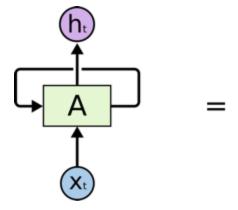


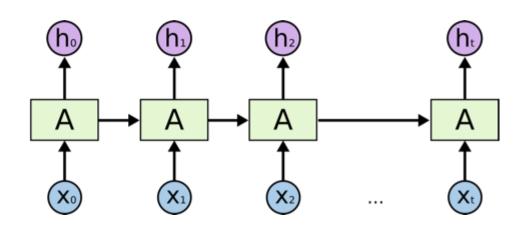
RNN



RNN

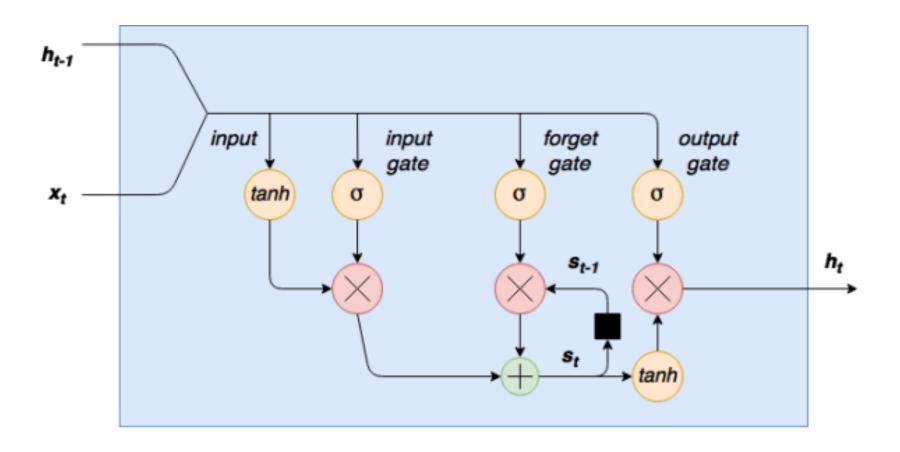




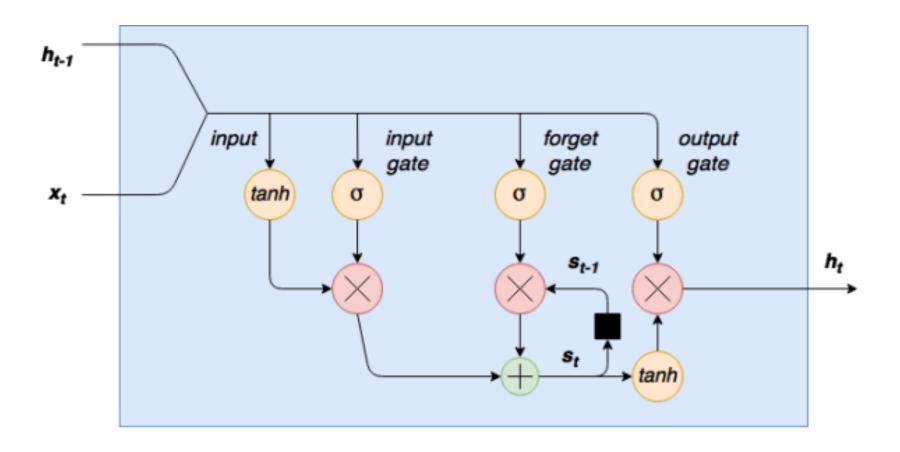


LSTM C(1) @(U) tanh tanh σ h(&1)

LSTM



LSTM



LSTM

- Long term dependencies
- Ability forget and remember