



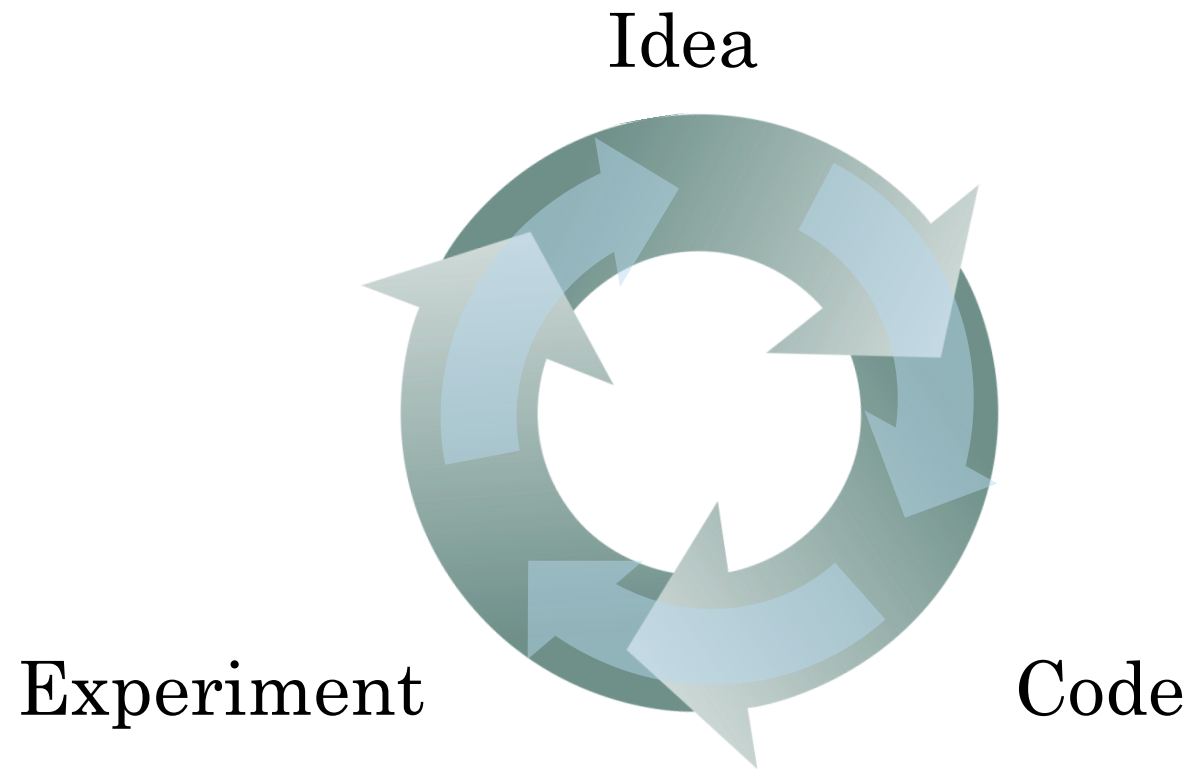
deeplearning.ai

# Hyperparameters tuning

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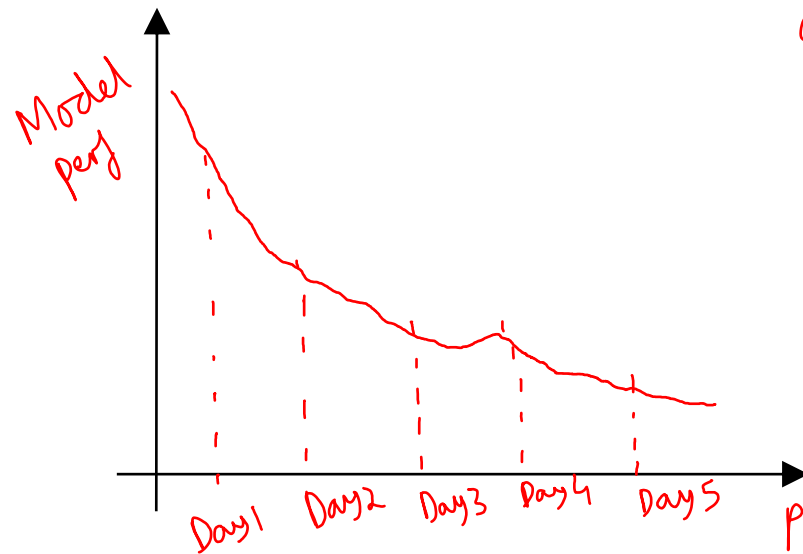
Hyperparameters  
tuning in practice:  
Pandas vs. Caviar

# Re-test hyperparameters occasionally



- NLP, Vision, Speech, Ads, logistics, ....  
*Some ideas of NLP's hyper param tuning can be used in vision etc.*
- Intuitions do get stale. Re-evaluate occasionally.  
*As data points tested ↑*

# Babysitting one model



Panda (has 1 child at a time)

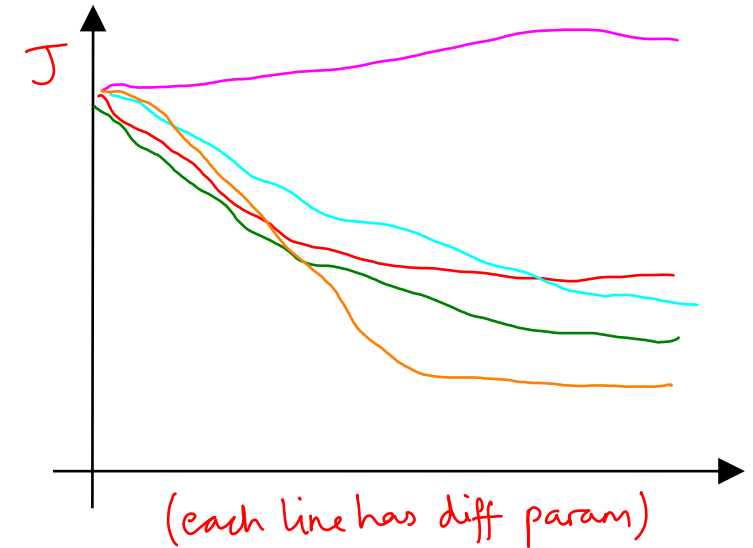
(can afford to train only 1 model at a time - limited compute)

- Try out the model train with  $\alpha_1, b_1, n_1^{[1]}$  on day 1  
 $\alpha_2, b_2, n_2^{[1]} \rightarrow$  day 2  
 $\alpha_3, b_3, n_3^{[1]} \rightarrow$  day 3  
& so on

params chosen on Day X

→ very few children  
- Take care of baby

# Training many models in parallel



Train Many Models, pick the best one



Caviar (Many children)