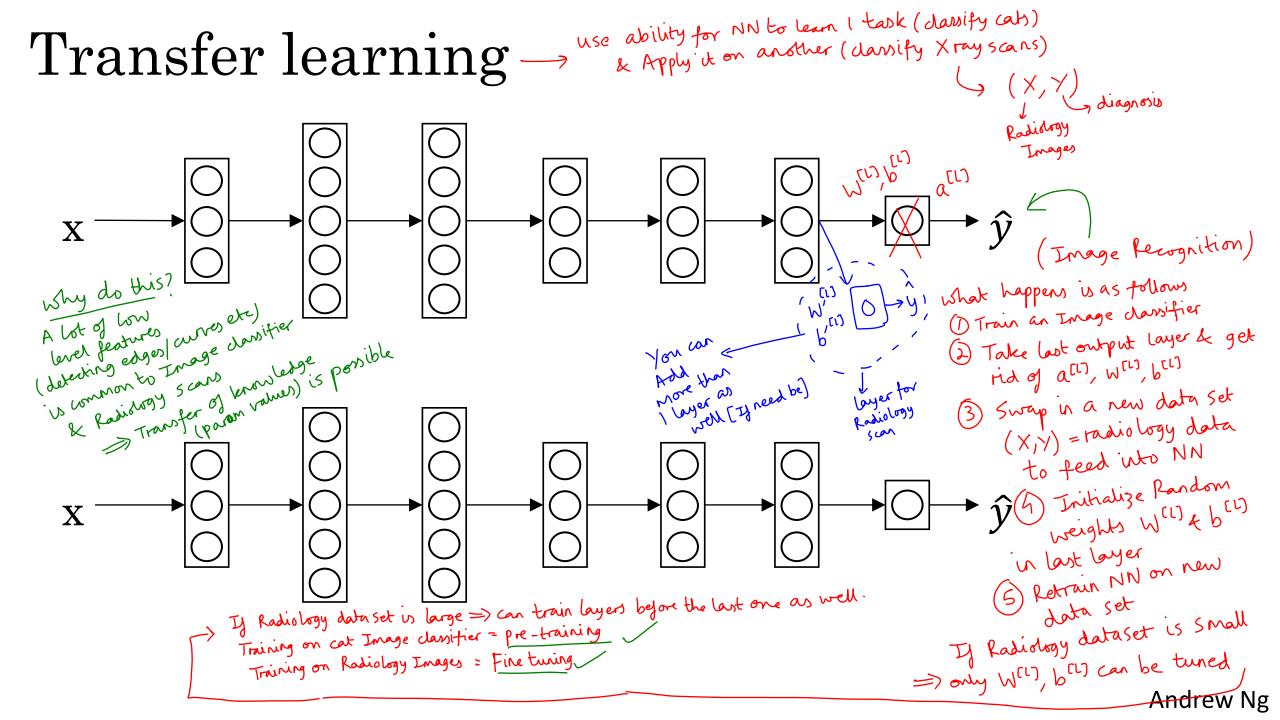


Learning from multiple tasks

Transfer learning



When transfer learning makes sense

Transfer from A →B Another , use human speech to learn wake words/Triggers (Alexa", "Contara")

(10 K Hours (5 hrs worth data)

• Task A and B have the same input x.

Assumption We want to do well on task B

You have a lot more data for Task A than Task B.

(A lot more data on Image classification, less data available for Radiology)
- IM Images is a lot to learn about low level features of Images
Maybe you have only 100 Images of Radiology Scans

• Low level features from A could be helpful for learning B.

When would it not make sense? Worldward Ly 1000 Images for cat classification
Worksonard Ly 1000 Images for Radiology
What something
- Makes more sense to just use all layers trained on Padiology data - Features learned from 100 normal Imgs wouldn't transfer