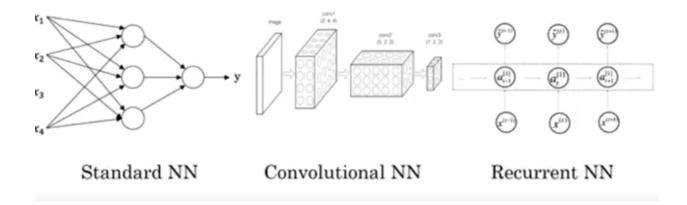
Week 1 Notes

Supervised Learning

- Features an Input(x) and an Output(y)
- A couple examples:
 - Audio → text transcript
 - Ad, user info → Did they click the ad? (0/1)
 - english → Chinese
 - Image, Radar Info → Position of other cars

Neural Network examples



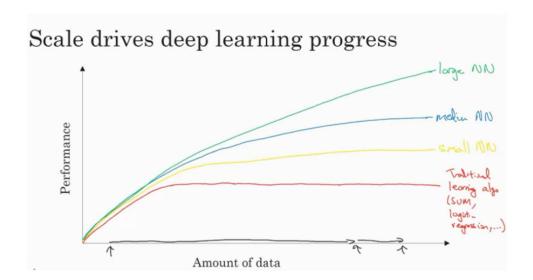
- Structured Data
 - Databases of data, with columns that tells us about features
- Unstructured Data
 - Raw audio, images, or simple text. Harder for computers to make sense of unstructured data

Why is Deep Learning taking off?

Went from having a small amount of data → a large amount of data

Week 1 Notes 1

Activities on devices creates data



- (m) denotes the size of training set or number of examples
- Combination of Data, Computation, and Algorithm development progress
 - RELU function learns parameters must faster than the sigmoid function

Week 1 Notes 2