

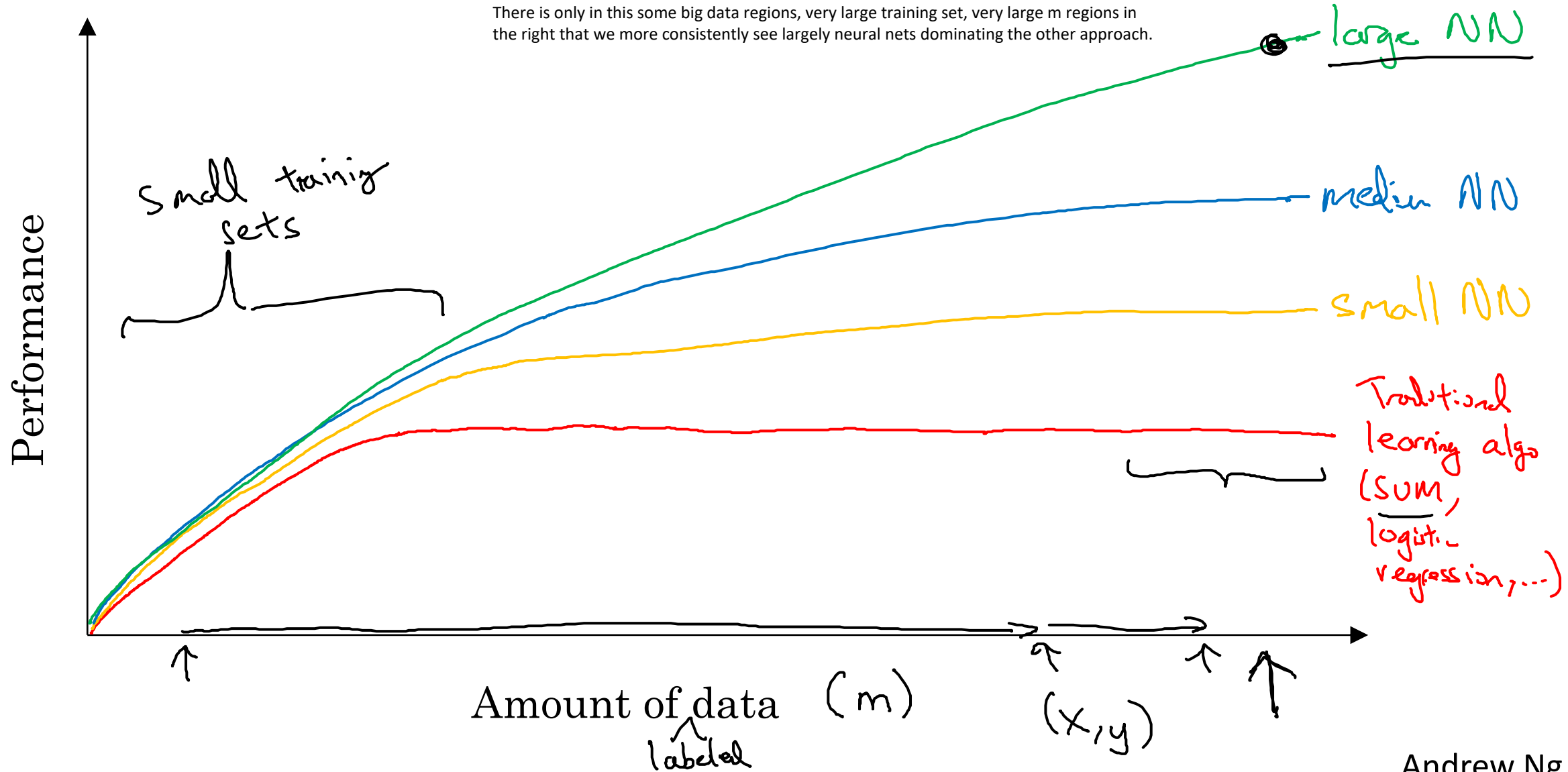


deeplearning.ai

Introduction to Neural Networks

Why is Deep Learning taking off?

Scale drives deep learning progress



Scale drives deep learning progress

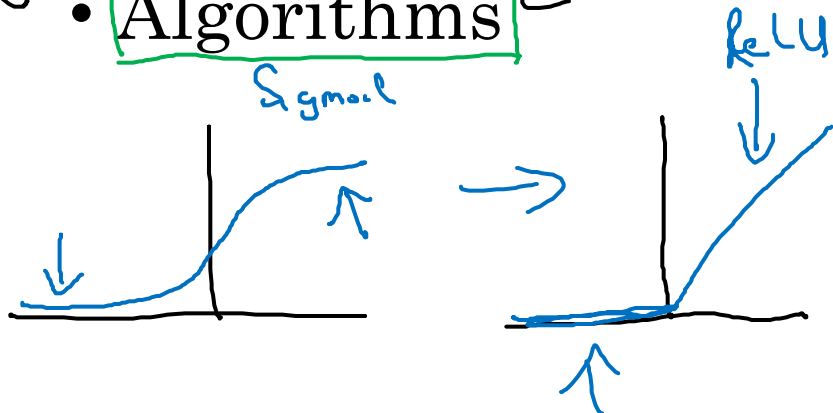
- Data

by changing the what's called the activate function of the neural network to use this function called the ReLU function of the Rectified linear Unit. The gradient is equal to one for all positive values of input and so the gradient is much less likely to gradually shrink to zero.

- Computation

It turns out that just by switching the sigmoid function to the ReLU function, has made an algorithm called gradient descent work much faster.

- Algorithms



Where the slope of the function, where the gradient is nearly zero, learning becomes really slow.
the parameters just change very slow and so learning is very slow

