**Notes**

**Neural Networks and Deep Learning**

Week 1

1. Reason why deep learning takes off today: data is accumulating because of digitalized society
2. 
3. Scale of data and scale of computation
4. Good Algorithms innovation (make NN run faster)
5. Sigmoid function (the slope becomes zero as learning going, and it becomes very slow to learn) to Relu function (gradient is one for all positive values)