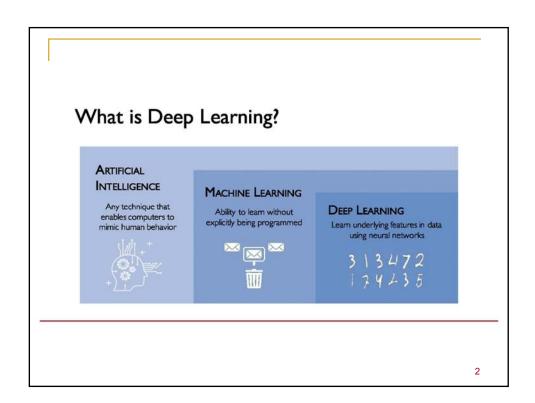
What is Deep Learning?



# Deep Learning Success: Vision

Image Recognition



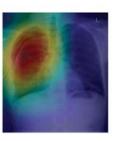
3

# Deep Learning Success: Vision

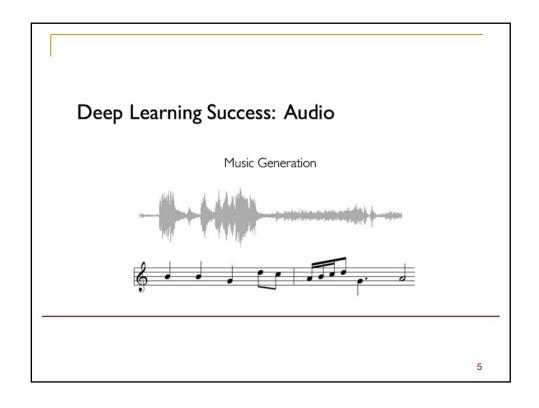
Detect pneumothorax in real X-Ray scans

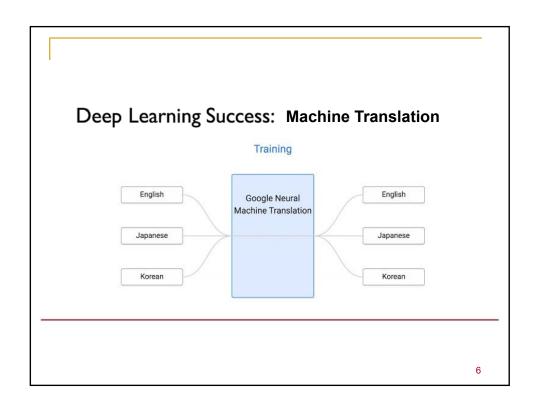






4





### **Deep Learning Success**

### And so many more...



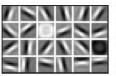
7

# Why Deep Learning?

Hand engineered features are time consuming, brittle and not scalable in practice

Can we learn the **underlying features** directly from data?

Low Level Features



### Mid Level Featur



#### High Level Features



Lines & Edge

Eyes & Nose & Ears

Facial Structure

8

