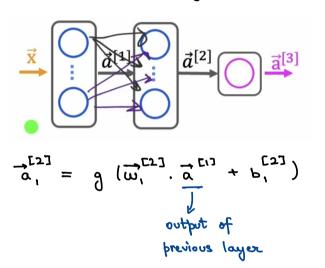
There are different layer types in a neural network.

Dense Layer

The conventionally used layer. In this type of layer each newson output is a function of all the activation outputs of the previous layer.



Convolutional Layer,  $\vec{x}$  is an input with handwritten

Each neuron only looks at a past of previous layer's inputs

Looking at only a region of input image is called a convolutional layer.

→ Faster computing
 → Needs less training data

Convolutional layer is primarily used for image classification, object datection and image segmentation.

It is faster and requires less training data (lessens problems of overfitting) because it doesn't need to look at every part of the input ~ correspond to heavilbeat EKG x, x2 x3...x100 what if we want to diagnose if a person has heart issues? rotate 90° to have it like an away convolutional layer this newscar looking at only a small window 

Summarising, in some cases a convolutional layer works better because you have untrol over the anchitecture of the network such as choosing how big is the window of inputs each newson should have, etc.

each neuron
looks only at a
fort of activations
from previous layer