

Training a Model

Inputs and Outputs

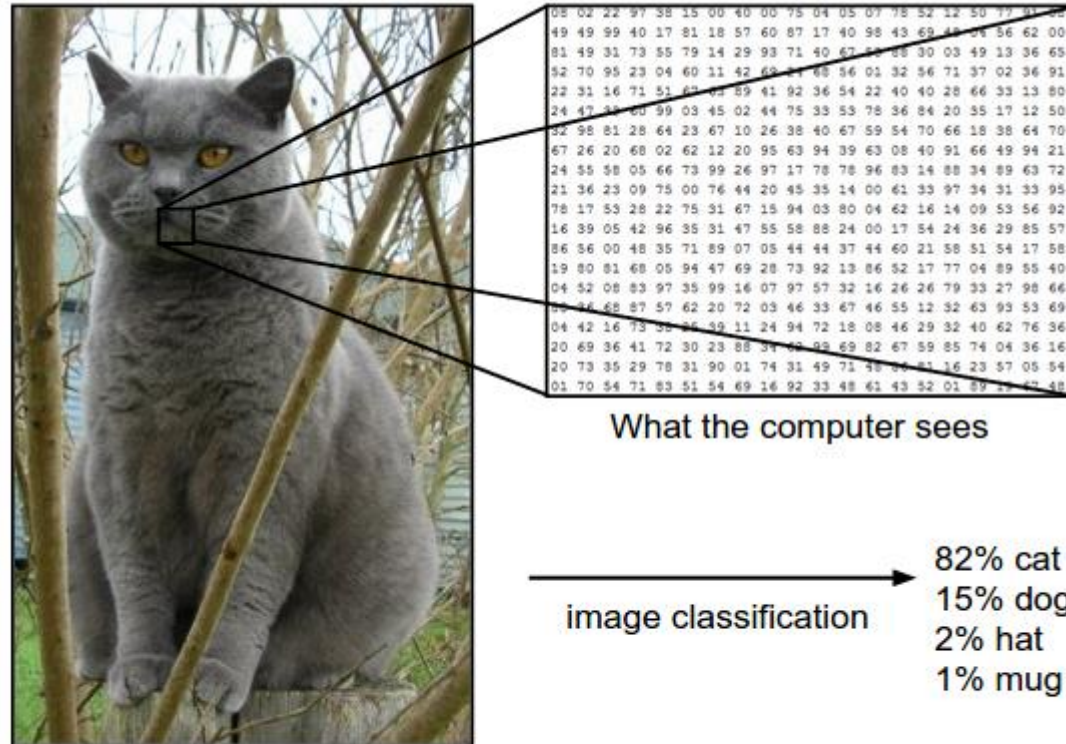
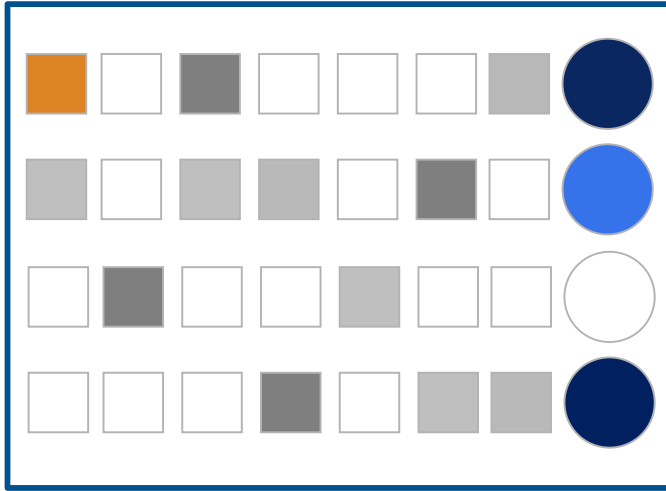
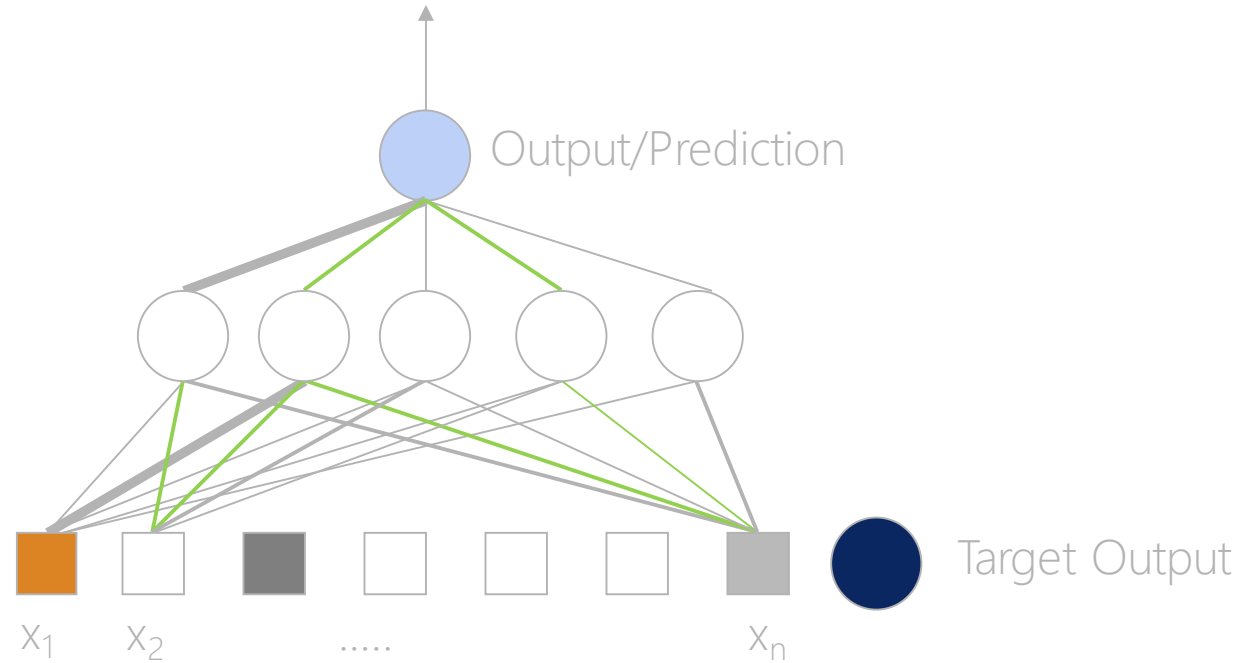


Image from the [Stanford CS231 Course](#)

Dataset

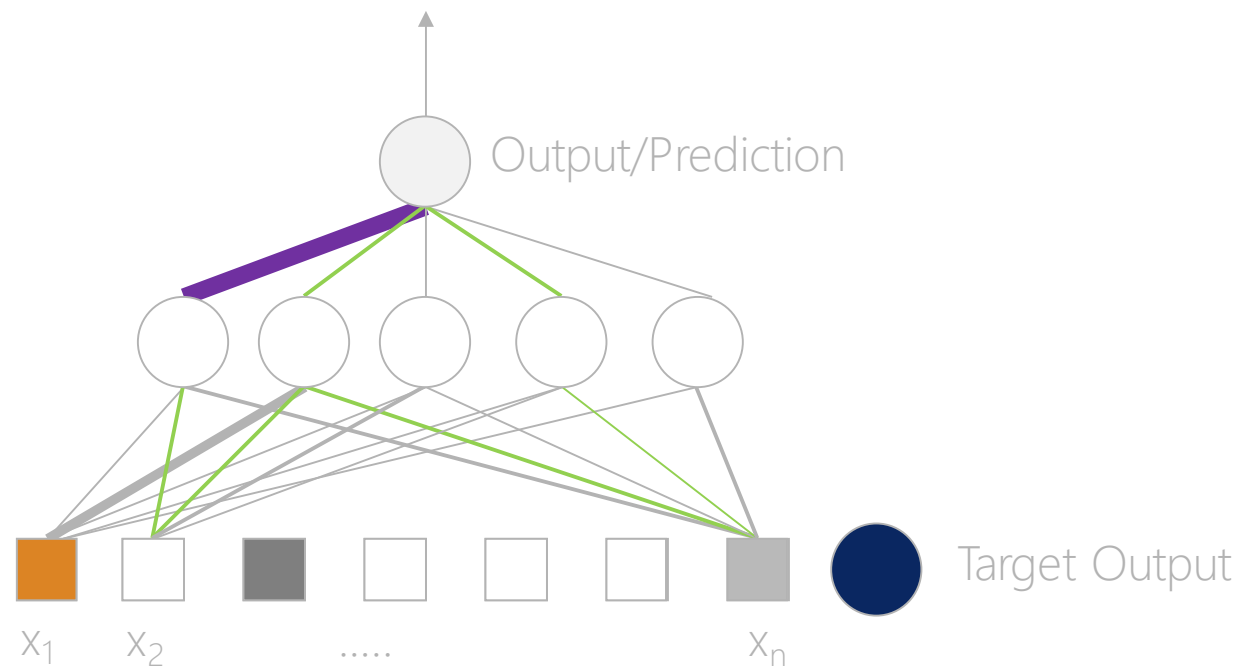


Learning Principle



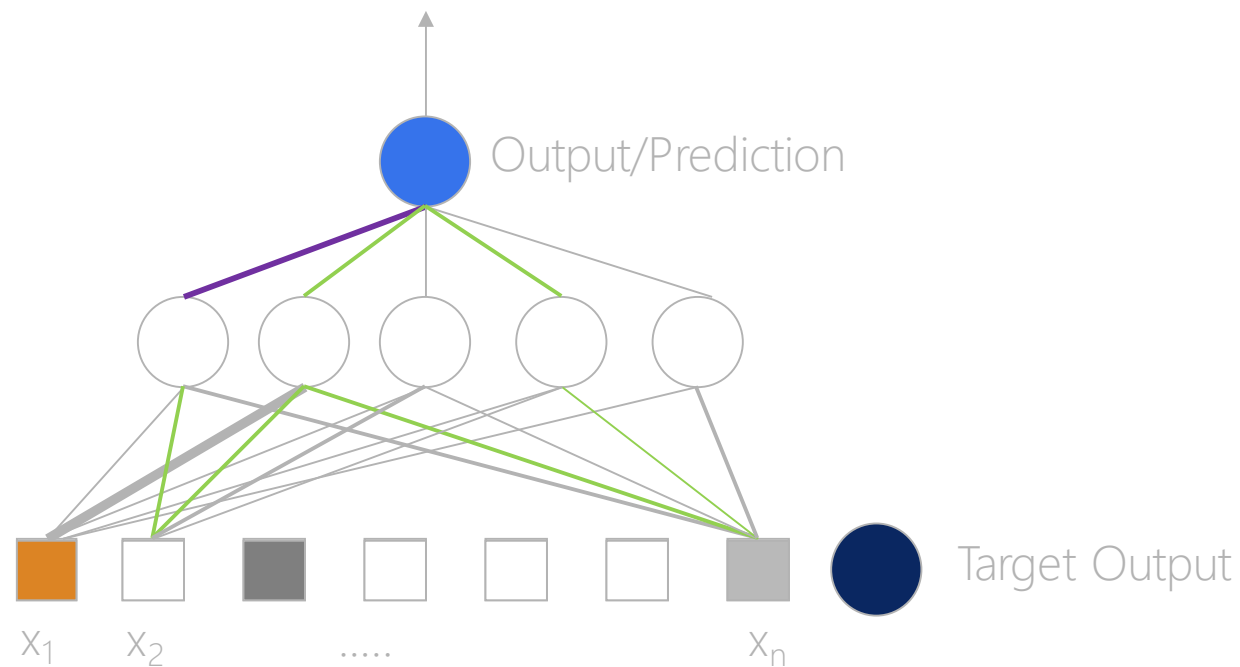
Error:  -  = 5

Learning Principle



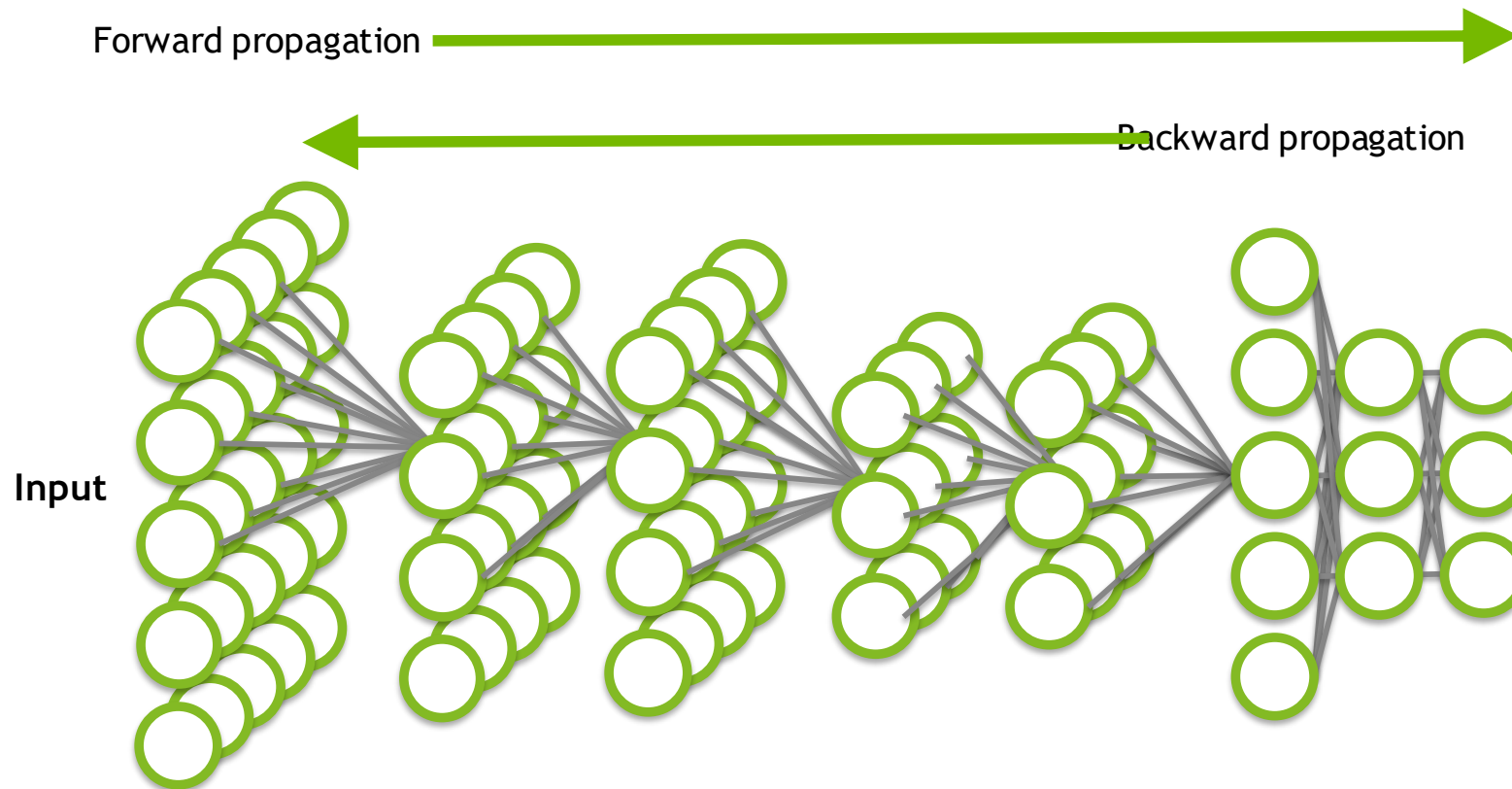
Error:  -  = 15

Learning Principle



Error:  -  = 2.5

DEEP LEARNING APPROACH - TRAINING



Process

- Forward propagation yields an inferred label for each training image
- Loss function used to calculate difference between known label and predicted label for each image
- Weights are adjusted during backward propagation
- Repeat the process