Non-linear hypotheses

- Computer vision section matrix of pixel intensities correspond to an image
 - Denote + and for affirming if an image fits a classification
 - Would need nonlinear hypothesis
 - Feature vector x pixel intensities in a column vector
- Example
 - Assume 50×50 pixel images 2500 pixels
 - * n = 2500 features
 - Quadratic features would mean ~ 3 mil features
 - * number of features = $50^2 + C(50^2, 2)$ as need all possible ways of 2 terms from features in addition to number of features present

Neural Networks

- Mimic brain
- Neural rewiring parts of brain learn other tasks