

Regularizing your neural network

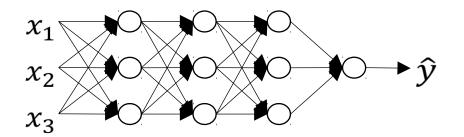
Regularization

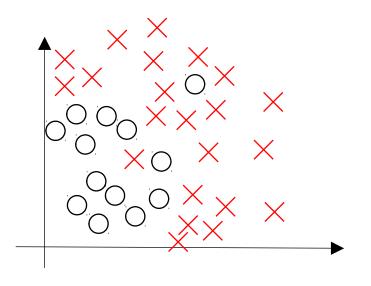
Logistic regression

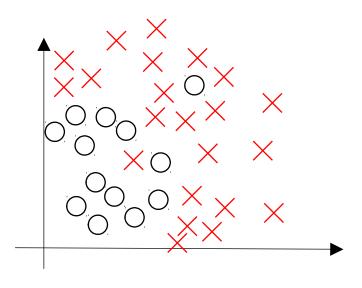
$$\min_{w,b} J(w,b) \qquad \qquad \underset{w,b}{\text{min } J(w,b)} = \lim_{n \to \infty} \int_{\mathbb{R}^n} \int_{\mathbb{R}^n} \left(\frac{A(u)}{y}, \frac{A(u)}{y} \right) + \frac{A(u)}{2m} \frac{1}{2m} \frac{1}{2m}$$

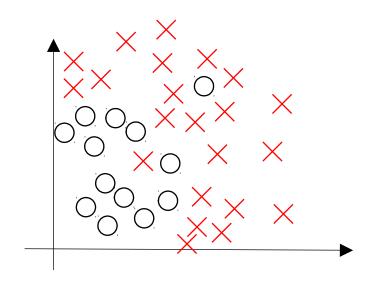
Neural network

How does regularization prevent overfitting?









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