Improving Neural Network Performance

**1. Overfitting**

* Dropout Layers
* Regularization (L1 & L2)
* Early Stopping

**2. Normalization**

* Normalization Inputs
* Batch Normalization
* Normalization Activations

**3. Vanishing Gradients**

* Activation Functions
* Weight Initialization

**4. Gradient Checking and Clipping**