# Improving Neural Network Performance

1. Overfitting

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

2. Normalization

* Normalizing inputs
* Batch Normalization

3. Vanishing Gradients

* Activation Functions
* Weight Initialization

4. Gradient Checking and Clipping

5. Optimizers -

* Momentum
* Adagrad
* RMSprop
* Adam

6. Learning rate scheduling

7. Hyperparameter Tuning

* No. of hidden layers
* nodes/layer
* Batch size