

Improving NN Performance

1. Vanishing Gradients

- a. Activation Function
- b. Weight Intilisation

2. Overfitting

- a. Reduce complexity/ Increase data
- b. Dropout Layer
- c. Regularization(L1 & L2)
- d. Early Stopping

3. Normalization

- a. Normalization Inputs
- b. Batch Normalization
- c. Normalizing Activations

4. Gradient Checking and Clipping

5. Optimizers

- a. Momentum
- b. Adagrad
- c. RMSprop
- d. Adam

6. Learning Rate Scheduling

7. Hyperparameter Tuning

- a. No of hidden layers
- b. Nodes/ Layers
- c. Batch Size