

Model  
-model.params : Parameter Dictionary  
-model.loss(X, y) : returns Loss function & grad  
--y==None -> return scores  
--y!= None -> return loss & grads(backprop whole params)

optim\_config  
-learning rate(필수)  
-update rule별 hyperparam

update rule = sgd  
lr\_decay = learning rate decay rate  
num\_epoch  
print\_every : 몇번마다 loss print할 지  
verbose : False이면 mute  
num\_train\_samples : training acc. 판단시 얼마나 쓸지  
-use all training set if None

Data

training set(X\_train,  
y\_train)

validation set(X\_val,  
y\_val)

solver  
-train() ; update model.params (best validation set)  
-loss\_history : save loss function during training  
-train\_acc\_history  
-val\_acc\_history