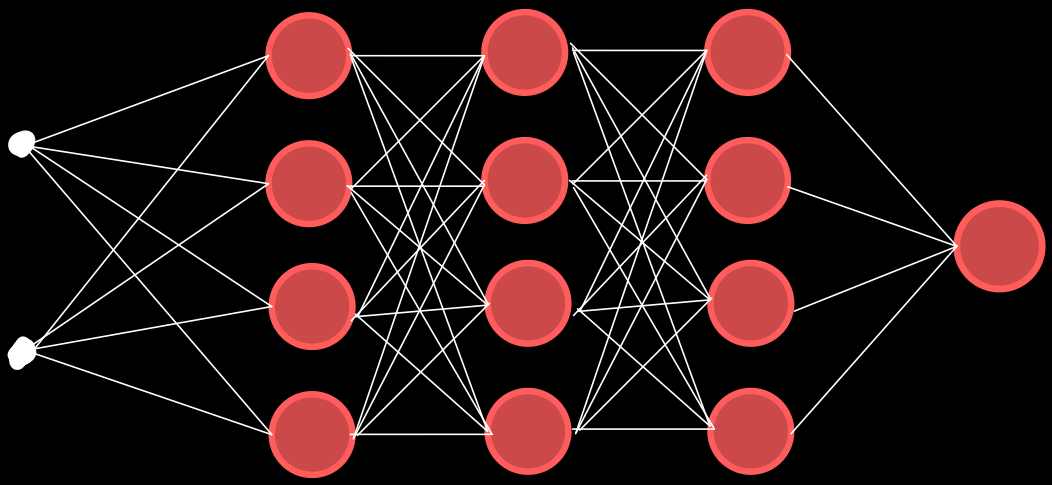
Dropout layers

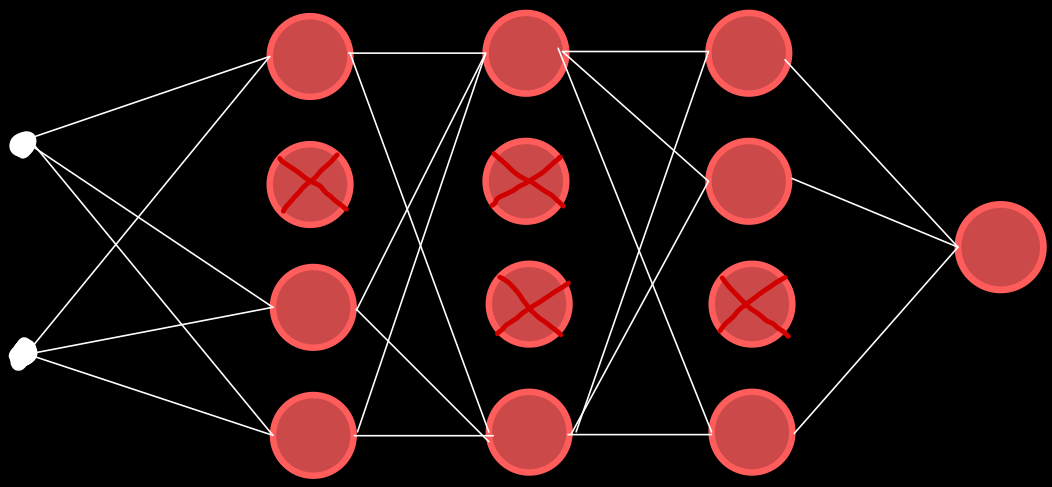
-> The process of reducing overfitting in neural network.

-> A technique in which we will de-activate / drop some neuron at each epochs.

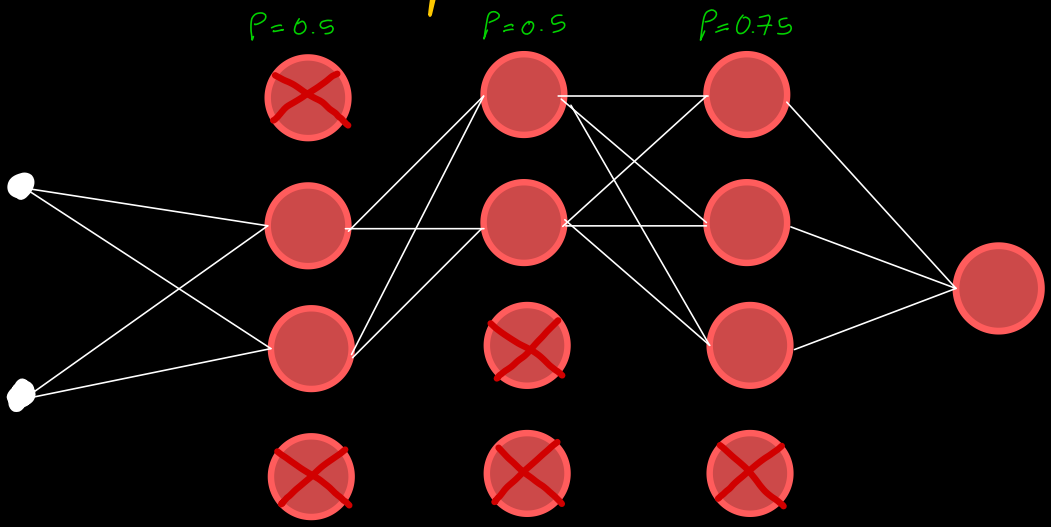


epoch - 1

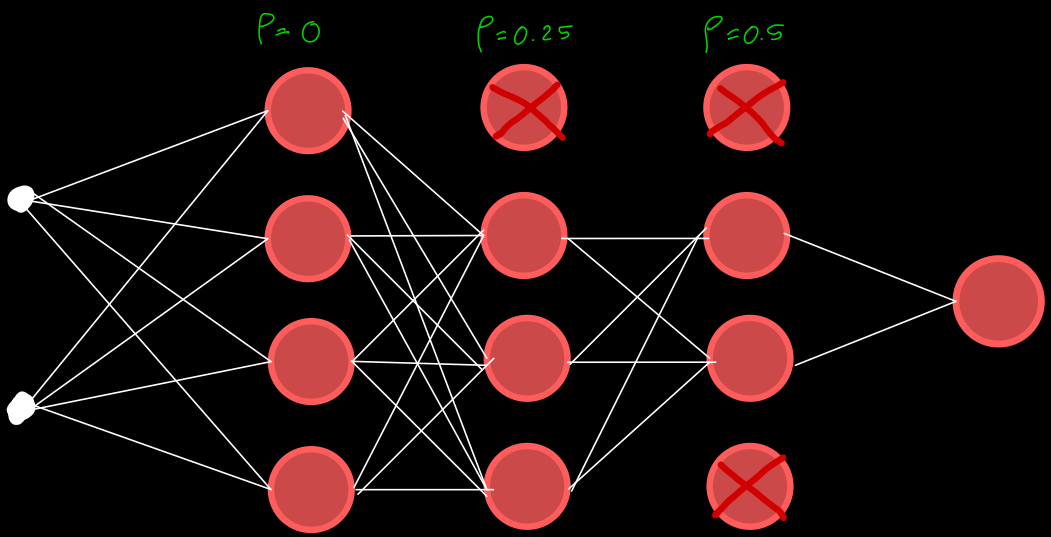
P=0.25 P=0.5 P=0.25



epoch - 2



epoch - 3



-> Like this, in each epochs randomly selected new nodes will be de-activated & olden de-activated/dropped nodes will be activated

-> for each layers we can select dropout ratio 'p'.

if P = 0.5 = 50% neurons will be dropped from this layer randomly.

-> By this technique, neurons won't focus on a single pattern. because on the next epoch, drop-out pattern will be changed.

-> High p value leads to underfitting.

-> low p value leads to overfitting

-> It is good strategy to apply dropout just after last layer.