week#9 Cectare#12 Tuesday 26-10-2021 12 regularization = prefers the neights & distributed weights

15 size of dataset is increased, we can be saved from over litting. High Variance This classifier is really lad bez it doesn't Tan et Pertomne = Bod Set Porformanie: bad High Variance: -000

Training Set: Performance: vong Good Test set Performance - lad Train Loss Validation Coss

1800 Training
Hore If we have more difference in these loss, then we show stol our Training. Solution. 1) Regularization (2) & Increase Patriet To avoid High Variance Explosing Gradient Roslan. If we don't use sigmoid unchin then wight Gradients are larger values 2000 50000 20000 all multiflied together, will get

Egger gadient values. tanh Adivation Function: tanh = ex-ex +0.99 8.83 gg -1 we feler this Advation function over sigmoid. In this wights, gradients , are not Zero Centered, it can give negoti Values in its outfut. In example: It doesn't saharak our outlet that much than Sigmoid, still it saturates our ordfut. Range has been increased. Its outlit can be tot to -ve or the the gradients doesn't move only in -ve or their directions to weights will man in both directions indefendently.