& Deep Learning (Mochine Learning) COL 774 April 29,2017 idea :-Convolational Newral Networks. Image has a spatial carangement. 1000 mage. . => Exploit compositional - Fair is made of multiple 0 Parts -Use localized (cornele: Kernell "IFIFTY Too many parameters. If we have 1000 Ridden units 1) bitton parameters Too many! 100× 10000 = IM parametric Lfor a songle kernel). Further - the parameters h/x) = 9(0Tn) are tied: -110×10 = 100 parameters g function 9(x)= 1+en E There can be multiple (Byshic) g(60) ->0 (depth of Such bernels to kernels (x100dt 1) at parameters (b) tamh! - 9(m) Each Icernel Pegare a different lee land of pathern's cornel w. 10 00 19 (n)= . Kn (1+2) - g(1) = from (0)



