Neural Network and Deep learning (superised) 1 - take logistic regretion for ex say we have a img and the pixel intensities D-1 for ex (bluck to white) are Features and me are trying to predict a target class (0-11) for the number given 00000 input: - This is difficult ~ 000000000 to Louis Logistic 111121 Registion as the 222222 number 2 dose not 333333 44 4 4 4 9 always look Ar same it slightly pixel intensities 9 9 9 9 9 9 9 (0-1) 9 (block + white) different cach time 7.7 Ext Felur eng many more 2 - Bat all the numbers have 9 = 0 + Former this is Comonallity like for Ex 2 a portect 8 = 0 + D has a dominating bertreal like a 9 has a vertical like + circle frombines pottores for @ dosa not have any libes etc. diagram : 5.5 Ex: NN burich now wr can monthly chaiterr Three things and add them as Frahres but NN like Hernol #9 Fration do Mis implicitly ontpor 41 77W it outsmatically without any A triggen lager 2 lager lager 2 guidance, we do this by (buggers) (0-9) Prodicts) 4 6 73.27 adding additional luyrus between 2p potrons probability input and out put layer throc are Stdort prodict of directly. ahtmon voriables. predict who makes 9 first "0" 4 - in its simple form Mis is a single layer creephon and the hidden layer STIHL3 has he idea what a "o" is mode from it what pictals no w represents some unknown feature make a 110" Per HLZ sid Plat ip in a perfect constit com be tor us. his HL 3 only predicti the stick line of number) [what vo" and "I" Make is 4 5 - Now instra of producting 1 directly Each hiller layer prelich another we presict the ridge layer with inper got's pasier until we got so predicting vertical line first the number to work found & o vinters) e thr but (torgat) Scanned with CamScanner