## NN cort (86)

- and from last page Mits our neuron hora ave many henres in second layer each with The own connections to first layor and its own wright / Bian

- o Perso wrights and Bias are learned in trains
- o for 16 menors in Second logs: 784×16 meight + 16 biases
- · for all NN it. 789 x 16 + 16 x 16 + 16 x 10 wrights
- 16 + 16+ 10 biases = 13002

  Parameters

  Per I parameters

  15 finding these parameters 5. Per a digit input nill give as a good answer

a dester rotation for  $\Rightarrow$   $a_{ij}^{lage}$   $\Rightarrow ijheil$   $\Rightarrow a_{i}^{lage}$   $\Rightarrow a_{ij}^{lage}$   $\Rightarrow a_{ij}^{la$ 

a"= 6 (Wa'0)+6)

- s ortest will be a vector with activations fro second layer and an e each leger has its own weight matrix activation and brasa
- 50 in reality each number is a function it to 121 Mo val 12th influenced by lost layer and 12th all influenced by

My imag. Du

so NN is function is fed in win 784 inputs all 10 outpats 37 F(ao...aye3) = [ 40] 13002 []

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