Apr 7,2020 Deep hearning (1) Motivation for deep learning L compositional (2) (a) CNN; - Convolutional Neural Networks Lost Class:-(b) RNN: - Recurrent Neural Networks C) GAN: - Generative Adversand Networks - SEF Atkinsom - Despouts Neural Networks. Convolution al W[u,v,e] 07-04-2020

77 22 x[i+4, d+v, eJ. W[u,v,e]/tb ==0 u=0 v=0 07-04-2020 Parag Singla @ IIT Delhi

Apply non- unearty to get the final output O(i, s) = 4(z(i, s))sigmoid Lactivation fr.) G Some intuition about how to backpropagate about gradients in this network:

(A) 25 room notice

(A) 25 room notice

(B) 7 rolling 7 JW[u,v,e] = 2/25 [JZ[i,s]]. [JZ[i,s]]

OS u,k k

OS ex d

Joseph Ann [214,-- 41]

A union of

JW[u,v,e]

JW[u,

CE downNbrb) 22t [i/s] Parag Singla @ IIT Delhi 07-04-2020

Sigmord Summany. d W. (u, v, l) Lexpréssed v, (B) 22tTridJ 07-04-2020

u depter! prepri multiple filters (xernets) function 07-04-2020

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