Convolutional Nueval Networks:
History:
· Mark I Perceptron Li Connected to a camera that produced 400 pixel image
$f(x) = \begin{cases} 1, & \text{if } w \cdot x + b > 0 \\ 0 & \text{otherwise} \end{cases}$
Update lule: $w_i(t+1) = w_i(t) + x(d_i - y_i(t)) a_{i,i}$
. Adaline I Madaline: 4 Started to stack linear layer into multilayer perception 15 No backprop
lune O hast:
backpropwas introduced
2Ep _ 2Ep x 20p3 2wji 20p3 2wji
Hinton & Salakhutdinov: Li Showed how to train on Li Not really like today's on Li Regulized caseful intralization
Hubel & Wiesel: 45 Found that cells had hierarchical organization
· letinol ganglion cell: Slespond to circular regions
· Simple cells: La Responsive to oxiented edges · Complex cells:
· Hypex complex cells: Leponsive to movement with an end point (corners)
· Nuexocognition: · Simple cells: modifiable parametres · Complex cells: perform pooling











