## CNN

- CON (convolutional neural networks) arra tyrr of Nunral normal \* (NN) used for data that has grid Like topology Liter imagri. Mrg usr convolutional layry to automatically and adaptivly Nese layers wie Filters / Krenals Mat slide across Part side across input doing element wish multiplication and sumation to detect patterns pooling layers our used to reduce spacial dimention of Feture maps Exirrsing computation and model more rolast.

e Think of these Filters Liter Feture detectors detecting Edens, corners, fextures, the moling is Like simplifying The imposition it by kreping important infor and ignoring times details. These lagers add up Like First layer for lines ledge detection second for eges inherls, ears Third and final for detecting final obj : compreson , day.

- final result is a prediction Ex: 90% cat 8-1. car 2.1. homon

· Convolution: The meth operation that involves sliding Filter over imp

· pooling: down sampling technique in ENN

· padding: in CNN refers. to adding exten layous of pivel by doing this me preserve the original dimention after poeling this shops

of stride: how many pixels fitter shifts during convolution into loss at edges

of theresoully (pretically stride 4 is 97 more datailed and imports preformance

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