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Convolution Layers.
Matuly 3 layors shal make up the CNN.
1) Convoludand layer
2) Rooling rayers.
3) Sally Counceded layer.
these 3 royles should the CNN with 15 formed
The state of the contract of t
Along with these 3 thore are 2 important
parametas.
Di Dropout layer
2) Adrivation lunchion:
January Contract to
1) convolutional Layer -
- Lite in some of its land will be the
- It is head lours used to extend valuant
- lt is frest layor used to extruct vairans - features from the input images
- the Mathematical oferation performed todicien inputager and filter of a particular size MAM.
and filter of a particular size man.
- By litting the fifter over the new inias.
- By Stilling the fifter over the right ining, the Lot product is tallen our she filter and, productingul inoigh withis respect to the 525 of filter man
poolstingut ingig well seem of the six of liter (man)
- The output is sound fortione may which
San Daniel Control of the Control of

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Just info about imas	k such as the corners.
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2) Pooling Layer.	
- ins layer decrease	die sing of the coundless.
feature map to seed	no sue compulational
cost	Paring Maring
- 1+ is pecformed by	lecrousing the comments.
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each patures map, leg	rending on the motion we.
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Map Pooling: Laurgeal e	due avg of the element in prodefind ge section.
Average " Calculates	the any of the elements in productive
ling ima	ge seelian
Sum pooling: The tola	supposed in it.
proolofined ?	section is computed in it.
	Property of the state of the st
3) Fully counciled 1	-aur
	0,
weight normania	seight and biases along.
- Usal de connéal de	ie neurous betassen
2 defferent lagor	<i>l</i> ,

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- These layous are usually placed before the
- These layers are usually placed before the output layers of can last few layers of can arelitectore
_ arelifectore -
- The input image from previous layers are
fattened and feel to so rayer.
The state of the s
The flattened vector undorgoes jeur more.
operations usually sale piece.
· in suis lage classificatoric process segons to tales
Laglaced Our is publique you saving the
when patures race connected in the layer it
con come overfitting in fraining dataset
- Dropail layor holps achere in a few
neurous are dropped from the neural
network during fraining process which
results in réduced size of the model.
· The ow passing 0-3, 30% of the nodes one
dropped and randamly from the neural
nelworth - 1911.
the state of the s

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D'Activation functions - Used so rearn and approximate any hind of
- Used to learn and approximate any hind of continuous and complex relationship between voirables of the netroord.
fire in the forward linection and which ever should not at the and of the relaxed.
V Grbr Net Archite chure
-Visual Breomeloy Group, is a standard leep CNN vorchitecture conth multiple lager. These
- The cleep" grafore for the no of layers. eg VGrb-16 or VGrbr-19. consolinational layers. - David and 10 10 10 10 10 10 10 10 10 10 10 10 10
- Developed to increase the depth of such con to increase the model performance.
The arelidecture is on the pasis of the spound - breaking object recognition models.
Also swapasses baselines of many tasks and defasels beyond many was

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- Most popular image « ecognistian architectura
in the man of the death was in
V61616:-
- This model supports to layers its
- 148 bas for-5 accuracy in maginer out 92.7%.
- It replaces that the Clarge Kernel - sized
filers with several 3x3 Normal sized filers
Over Nex Net.
- Houset support 16 layors and can clossity: images into 1000 object calegories, includes
Kellowerd animals penci (mous et
- The model rapupal size of 224 - by -224
Voralb Arditecture:
- It is an extensive returned and housa
John of around 138 million prenameles.
- 13 samplocity is what makes the whisoth
- 13 samplacity is what makes the whisorh
- Flev couvolution wijer and gooling layor

Voron very deep convoletand when
geoleces she height and she with.
pround 64 filters are avoilable such can be souble so about 128 and then 256 filters. In last layors, we use 512 filters.
in last layore, we use 5/2 filters.

Embedding layer -DATE perfesent words in an array not inform of our represent any word in few dimension mostly based on the number of anythe words in our seps to convert raw data to embedding. * Load text data in workey. * Process the dola I Tollewize and lad convert sept to sequence and wing the tollewizer and fad them with Keras proprocessing and pul requere wellood. d'unevecus 6 max-words, representation dinonsons, input 3129)) mas-coords: 1+ 15 the no- of unique woords in your dala. representation limension: It is the no. of.
dimensions in which you would to represent
uput sory - sorze of your padded sequence Conaplen).