	Convolutional Neural Networks Date			
	Week 1			
	Kernel 10-1 >> vertical edge detection			
	1 0 =1			
	10-1 C Harizontal			
	ight (dark			
	Sobol filter 10-1			
	2 6 - 2			
	10-1			
→	$1 \times n + 4 \times 4 \longrightarrow (n-4+1)$			
	Impe 1 Kornel Convo			
	Padding (P) (n+2p-+1 x n+2p-+1)			
	$lnpw = 0wput \rightarrow n = n+2p-f+1$			
	$\rho = \frac{7-1}{2}$			
\rightarrow	Strided Convolution (Jump)			
	Output = n + 2p - 1 + 1			
->	volume,			
	nxnxnc * ffné -> (n-f+1 x n-f+1) x neinfoltons			
→	$z^{[i]} = \omega^{[i]}\alpha^{[i]} + b^{[i]}$			
	ali] = g[zi]			
	Input: nu [1-1] x nw [1-1] x ne [1-1]			
→	Input: nn x 116 x 11c			
	Output: nn [1] × no [1] × no [1] dways chek			
	1 Liters /			
	$n_{H}[L] = \left[n_{H}[L-1] + 2p - + [L] + 1 \right]$			
	L SEW J			
	A[N] -> M × NN[N) × NC (N)			

		Each filler: \$[1] x 7[1] x nc[1-1]
		(1) (1) (1) (1)
		Winte: F(1) x y(1) x nc(1-13 x nc(1)
		Weights: 4 the x Me x Me
, V		bias neces
-	->	Convolution → Pool → Fully Connected
1		max ang
-		WEEK2
1		The second of th
	->	Residual Network
	3.	Direct add (ship)
		The state of the s
	7	Network in network or 1x1 comolutos,
		basily you multiply and it behaves like neural retwork
1		or also shrink the volume
	ج ح	Inch 11 3 Day 211 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Inception model > Does all pas of computations reduces cost by 1/10
	->	Mobile Net
		Depth wise Separate
		= Dep. Musisc x Pointwisc
		Cost summery = 1 1 1 1
		•

	Page No. Date	
	week 3	
_		
_	Sliding Windows detection	
	Incl 3x3x8 an 19x19x8 tensor, and the output feetings who [0/1 bw bn]	ye htoa 8 is No
	Intersection over union 7.0.5 => cornect	
	Al I - r	r - 1
	Achor box -> Far 2 abjects	Pc
	Tra . 00	bx
	Transpase Convolution	by
	Demonti Lumistalia	bw
	Semertic symuntation.	C
	Lowresolution + high into and hyperes + low info	C2
		(3.
	Week 4	
	>> Vorification	
	>> Vorification Recognition	
	-> One shot learning	
	-> Dianuse network	
	Parameters of NN define or excelly Hali)	
	mell	(m) 112 is
		o mery
	11+(A)-+(P) 112-11+(A)-+(N) 112+4	50

Solid Mot prod Mat maximises the activation fundo.