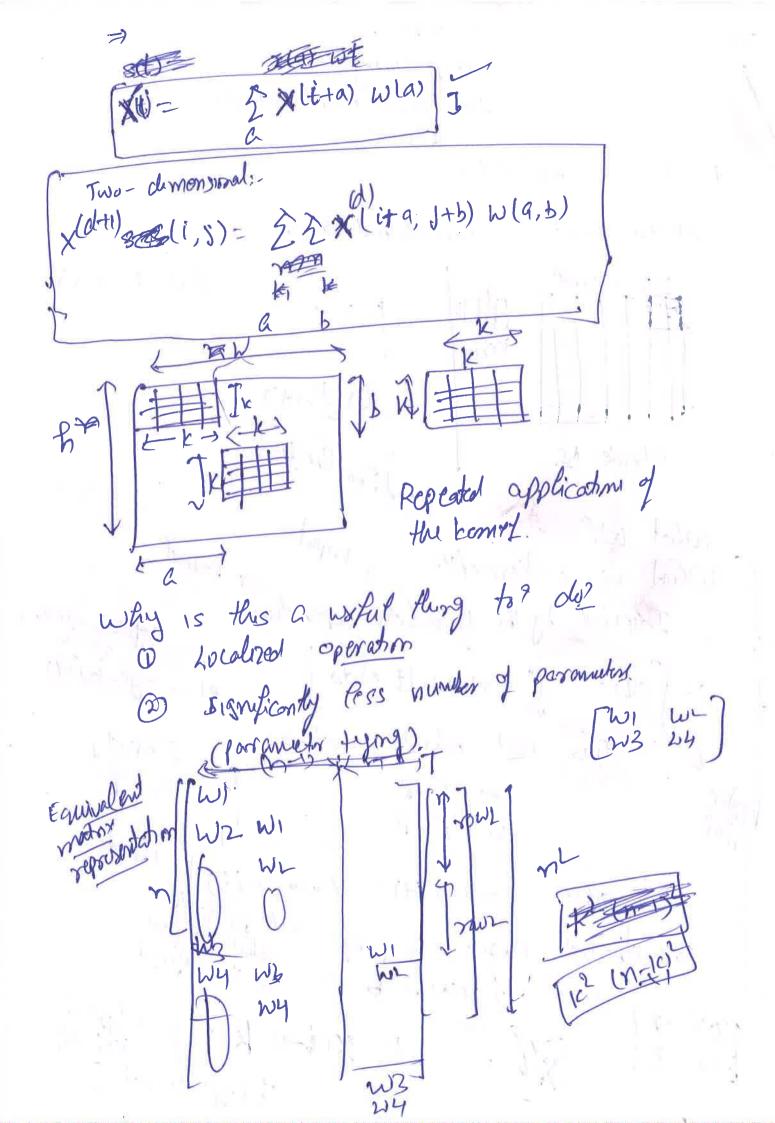
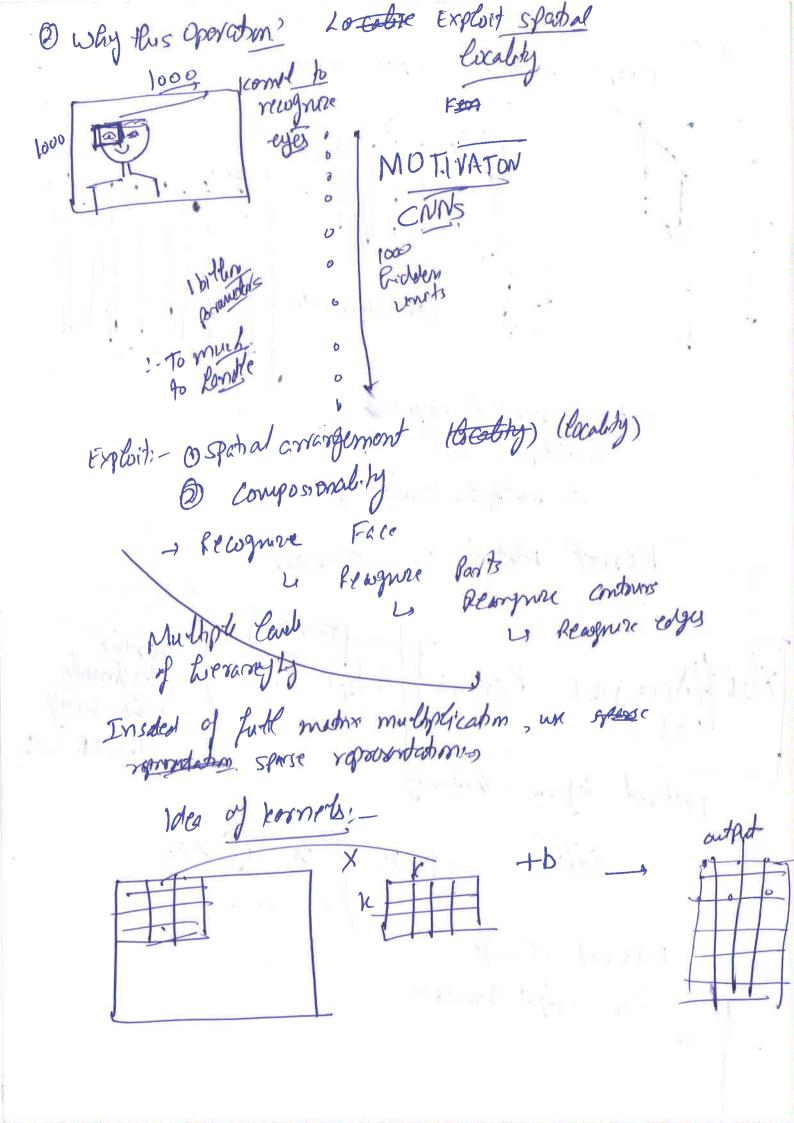
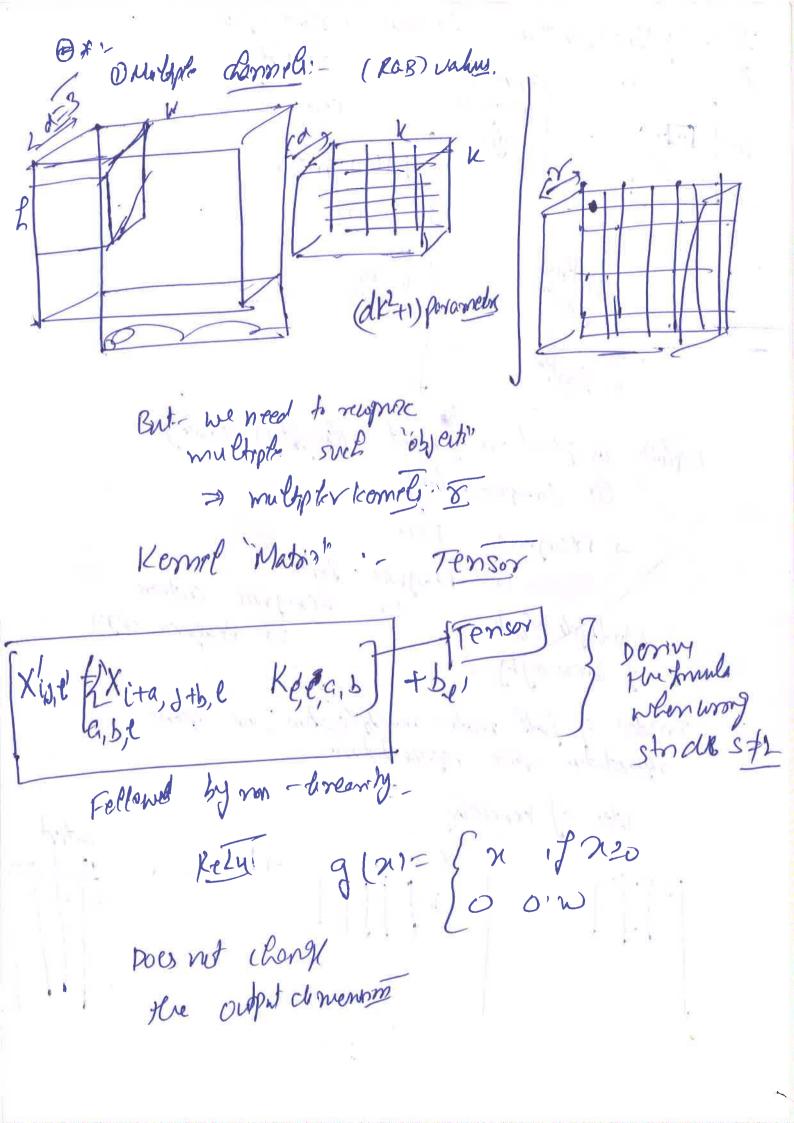
COL865 Doop Learning Convolutional Neural Networks (CNNS) First Real Architecture-At the heart , - convolutional layer KAE - Kornel: read from the books Stride = AS a kornel?:- y input Inspired by the convolution operation. s(t) = (n(a) w lt-a)da Two Real valued functions:-"X) RAR W. R-R S(t) = (xxw) (t) = (wxx) (t) For cliscost (ax:- a Range:- all possible on values when your set) = 22(a) w (to-a) 71 is defined £ *(1-a) K(a) Klipped icenal







(Max): Pooling Operation - Applied after convoliding. 3 Helps to reduce the sprountations Prote Xtini Ava Max X(ita, 1+5) x'(1)3) = steger-O Lover asso,13 1compt b & £0,43 application D Non-lover not volly care about . manskomahon exact location Pooling a can wa with a stade SFI. Another myortent zero-padding (W-K+)) * (R-k+1) output Cayer (shinter) Pad 2000 es: (R-1) 2000 on [339] each side. Add mor zenes thon(x-1)- Fully comvolution

werall Architecture. Convi Non y Pooling Afrend. (2012) Imagenet charleage ILSVRC Tran:-150,000 TOPS1. CAMPLATO. Barela propagation to 15. 41. equivariance. Notion equivors and wint g 9 (P(m)) if f(g(n)) = equivariant love t Convolution 1 transbohm.