20-10-25 Attackgendail about testal (00 O Introduction to computer vision: Image processing toold of L> opener pillow @ convolutional neural networks and different CNN architecture with practical hands on. Transfer Leavining and prie-trained Sat state of the art (SOTA) model obsect classification object detection. (N) obsect segmentation. leggoint detection/ pose (MII) estimation. Facial recognization (1) OCR -> Optical character recognizer (20) YOLO, Detectron2, Tensorflow, Bytorch (201) and so on. Real world computer vision project implementation.

De ployment

ST STW 20-10-25 200 Latest Trends like vision Transformer, multimodel and so on. 00 object trancking GLANS GLANS sevie self draining cott- can implementation EVID Ex Defusion model (4) org bas primises. 1102) kno self to state to2 a breet classification bearing detection / passe Circa Pacient secondinization OCP -> Opsical character Mose Description 2. Tersual

presequisite mobile 1 pa python pstogsamming -> 50p @ Basic of PA -> NN . who reladed the > what is composer vision? computer to have a vision system close to be homans. (Lime series deta) Input a sersing derice a governmenting. Maiora has (camara) show (processor) 50 we need to > Three foundational steps of ev output acquising the image > escocessing > output Timage Lata is a pinal me motion first value. come of milestes or teres more ord Leadune miles

It computer vision: and the whole and the ~ O ANN ~ Antificial marad network + tabular dota convolutional neurod networks O CHH. 1) Image dota, video dota Pnn -> Recurrent neural network 1> text / Audio data (time series data) we work with end mainly. so we need to Feature extraction: +Image Lata is a pine m matrin pinel value. -content obsect too detection ort feature mor,

> CNN visual Human 13a (motion) > Hubel wiesel :- cat siesearch condusion simple cell -> (blue) - arientation cell complen cell. -> (Red), field complex cell. -> (Red) field biger receptive ficild

soutcome is busin mount to has sstage 1 after that the nocongnition is a hierarchical moltilayored artificial neural network avproposed by kunitiko tukushima 1949 In middler that: be in born ladoff = "arradient based learning applied to locoment reconition" -> paper (yann 64177

single object Joseificalin -> (classification + localization) Instance (Image) obsect detection segmentation video multiple object > segmentation Hy normal Image * > semantic segmentation * instance segmentation ponoptic segmentation. then perform a over the image # application: oself driving not 1 focial segge recognition (11) Dedection system 1 AI -> mota glass To Pota aquisation / qualitiful data A challenges; 1 hardware - P. C.PU -> A150/ V100 m proper knowledge of domain.

torredo olonio Image: O Black and white (height and weight) O color Image -> 3 channel (RaB) @ PNO Image > u channel Disch B alpha RAB, Alpha Avideo dota: com borror es Image frame -> 30/60 frs. due need to video to Image and then perform & over the image. inthoning to The driving out as focial season we recomition (1) pertalion suchem reale stonic - It no 10 Pod or experised to 1 qualified data (20 partlado 1) 001V 10010 = 110