PARTI, Review & Yolo4 March 18 Example: 1° Moments Definition

Suppose We have Computed X alveady

Sign (x-x) B(x, y) dxdy

NI M-1

Example: 1° Moments Definition

The propose We have Computed to the compu $\int_{\Omega} (x-\bar{x})^{K} \beta(x,y) dxdy = \int_{\Omega} \int_{\Omega} \int_{\Omega} (x-\bar{x})^{K} \beta(x,y) dxdy = \int_{\Omega} \int_{\Omega} (x-\bar{x})^{K} \beta(x,y) dxdy = \int_{\Omega} \int_{\Omega} (x-\bar{x})^{K} \beta(x,y) dxdy = \int_{\Omega} \int_{\Omega} (x M_{Pq} = \int (x-x)(y-y)B(x,y) dxdy ...(z) (z-x)^{2}B(z,y) + (3-x)^{2}B(z,y)$ where $x = (x-x)(y-y)B(x,y) dxdy ...(z) (z-x)^{2}B(z,y) + (3-x)^{2}B(z,y)$ $+ (y-x)^{2}B(y-y) dxdy ...(z) (z-x)^{2}B(y-y) dxdy ...(z)$ $- (x-x)(y-y)B(x,y) dxdy ...(z) (z-x)^{2}B(x,y) + (3-x)^{2}B(x,y)$ $- (x-x)(y-y)B(x,y) dxdy ...(z) (z-x)^{2}B(x,y) + (3-x)^{2}B(x,y)$ - (x-x)(y-y)B(x,y) dxdy ...(z)q=0,1,2,..., Let q=0, Eqn(2) becomes Eqn(1) $= (1-\widetilde{\times})^{2} B(1,4) + (2-\widetilde{\times})^{2} B(2,3)$ +(Z-X) 2B(Z,4) + (3-X)B(3,2) +14-x)2B(4,1) Let p=0, q=Z, to get Eqn(4) from

the Pot Example. $M=\sum_{y=0}^{N-1}\sum_{x=0}^{M-1}(x-x)^{p}(y-y)^{q}B(x,y)$ Y=0 X=0 $=(1-\bar{x})^2+(2-\bar{x})^2+(3-\bar{x})^2$ Example | External Constours Tree Constours Treelist & Pattern Note: Fan (2x) is implemented as Brild Tree"
for this One of the Open (V Junction. Use I(x,y) (Birmy Image B(x,y)) to Compile a (from Eqn (1*)). Review.
1) midlem 12 hr. K=2 $Q = \sum_{i=1}^{4} \sum_{i=1}^{4} (X-\overline{X})^{2} B(X,y)$

PARTI

7) Formulashed is allowed, No Introduction https://kaus.conda/index. Example, No Verbal Explanation, Close Book, close Notes

3) ~3 Unestinus a Moth Farmlation, Calculation. b Design Implementations



4) Swhjects.

a F.NN , & Preprocessing

Nemons, Functions bleight B(x,y); X, Y;

ZiWixi Orientation;

C Convolutions CNN Kernel, Computation.

Activation Function

Example: Yolo4 githinh 12eps

Kef: Readme. +xt on github.

Stepl. Announdais installed on Yourmachine

Step Z. Source Code Repo github

Step3. Greate GPU Environment

By Anacorda Step 4 Activate the gpu environment Step 5. Down Load pre-trained Weights (yolo4)

April & (Thur) PARTIL Yolo

1, midterm Key Posted On github

z. Team find project

Presentation (Semester Long

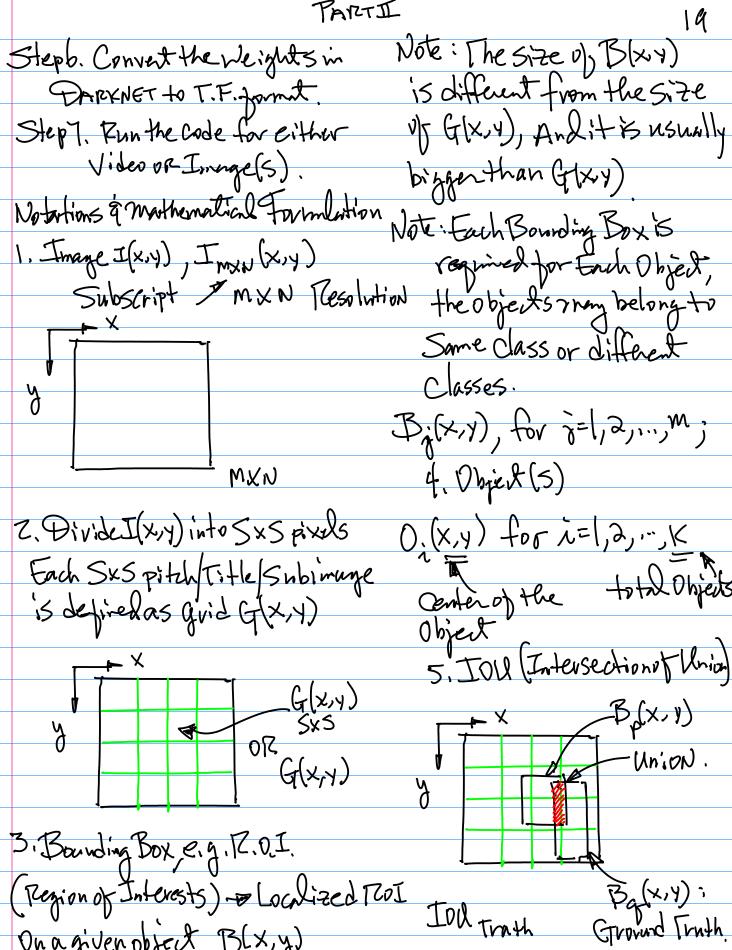
Triject)

3. Yolo 4 4. Araconda

Repo: Implementation 1 = Anacorda

Lb githnb→ Theoretical Crotomitation Foundation J PPT

L Paper by Fame Brok AI.



On a given object B(x,y)

3mpeas8

IN = (1) B(XY)=B(XY)

[[0,1) 0/w ...(1)

Prolo(Ci) $\sum_{\lambda=1}^{N} \rho_{ro} b(C_{\lambda}) = \langle \dots (4) \rangle$

6. Five prometry defined for

Tive promoters defined for a, Define Goodition

Bi(x,v), &x, &, W, H, F(Bi(x,v)) } Probability.

Trob (Cilo) ...(5) Given an object of find

Centroid Confidence

Bi(x,y) f(Bi(xy)) = f(Bi)

the Probability of Ci,
e.g. ~ that this object
belongs to class i

Sm(xy) (Bm)

·-.(2p)

If Confidence f(Bxxxy) Representing 2 trob(Ci)Dj)=1

 $\sum_{j=1}^{\infty} f(B_j(x,y)) = 1 \dots (2)$

7. Define probability for Each Object as follows

Trob(0,(x,y)) = Prob(0,)

8. Denote Classes as

Cinforni=1,2, ..., N; Hence, the probability for Cinis