(a) Face Net Res Net Learning DE Jan 28,202] Welcome to CMPE258 1 Ation - Polin - Reward First Day of the Class HARRY LI, github/hnalihilopency/deep-Leaving-2020S 20-20215 Emil: hnali@sjisn.edu Wark to be done: Office Hours M.W. 4:30\_5:30 Pm. 1. Trayramma Code Development (150) 400-1116 Text DNLy

ON-Line Material Sythms/Avalibi Z. Write Submit Pseudo Code

CANVAS Homework (Brief Summany)

HAVDS-ON:

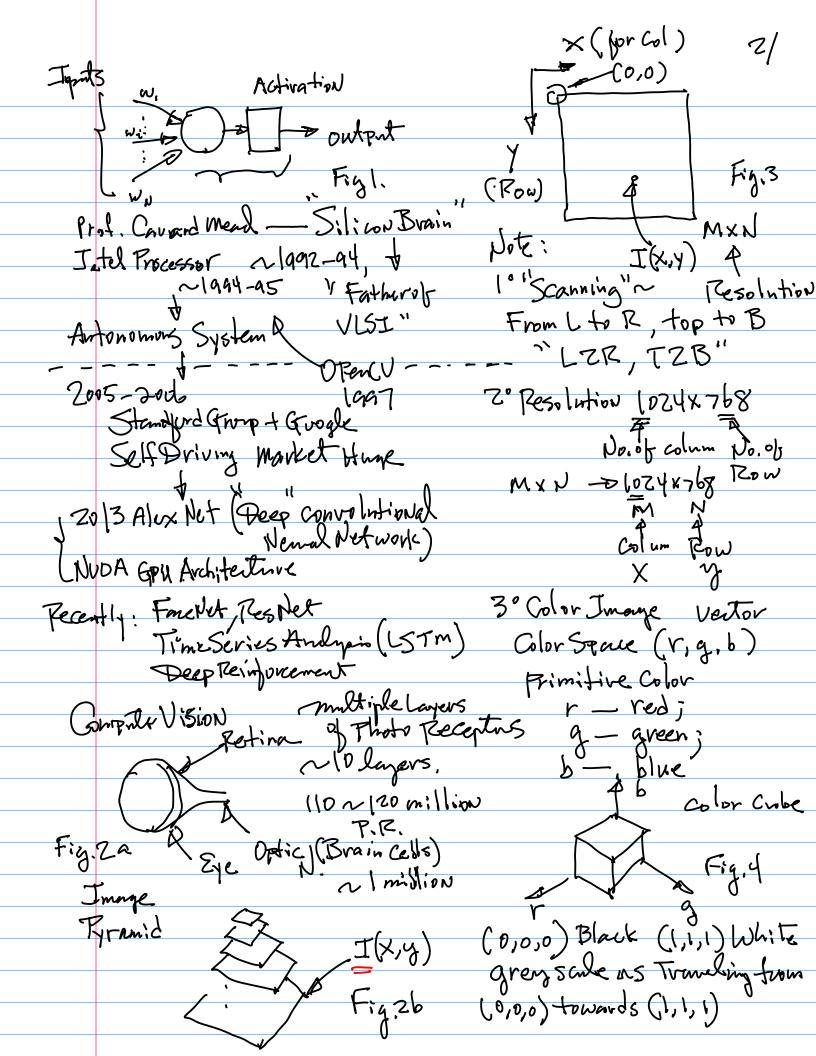
CANVAS Assignment Report prane Zvom Based Programming. Rython Of Homework - 1. Trogramming. Python of Homework Sample on yithinb (OpenCV, T.F. (Tensor Flow) Kevas API Latex

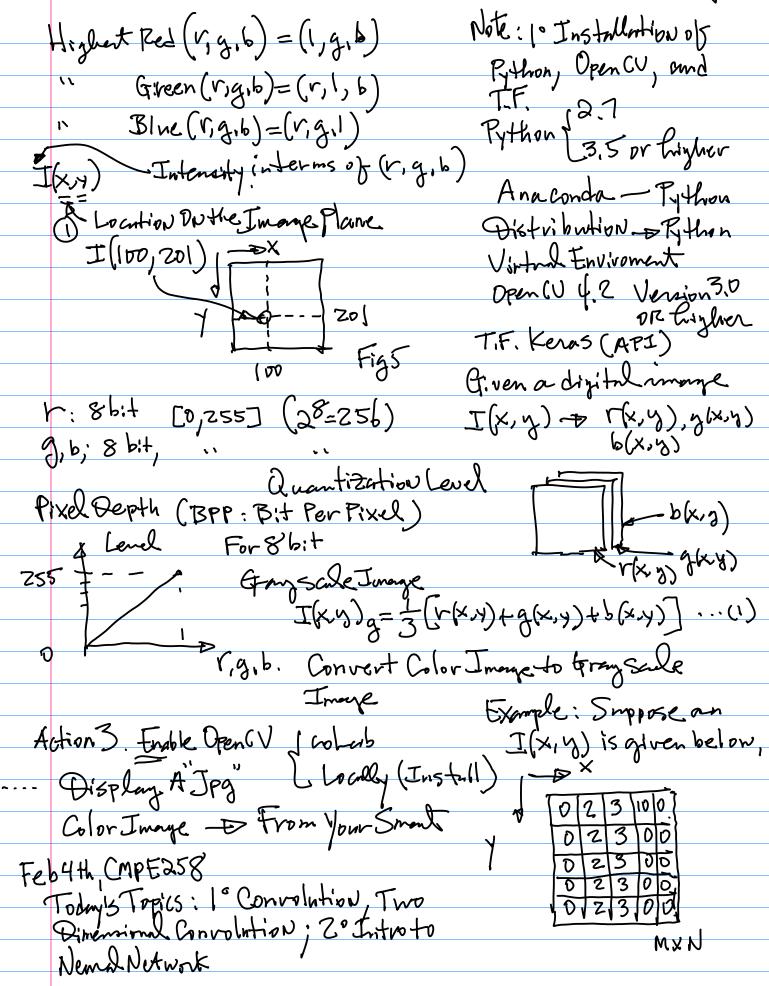
3. Homework Sulmissiph google colab of Submission (Including Action (: Installation of Open CV. Semester Long team Project) Version 4,7 Note: Use/Adopt Linux Uhantu
Virtual Box
2nd O.S. U.B. (Free)
Native O.S. Action 7: Form 4- Terson Team By Febl4 week; work has to Indiridant Encourage team
Discussion. (Mid: 30%
Grading To lidy: Homenbork: 30%
Final: 40% Nate: Python 3. Python Virtuel & Introduction Environent

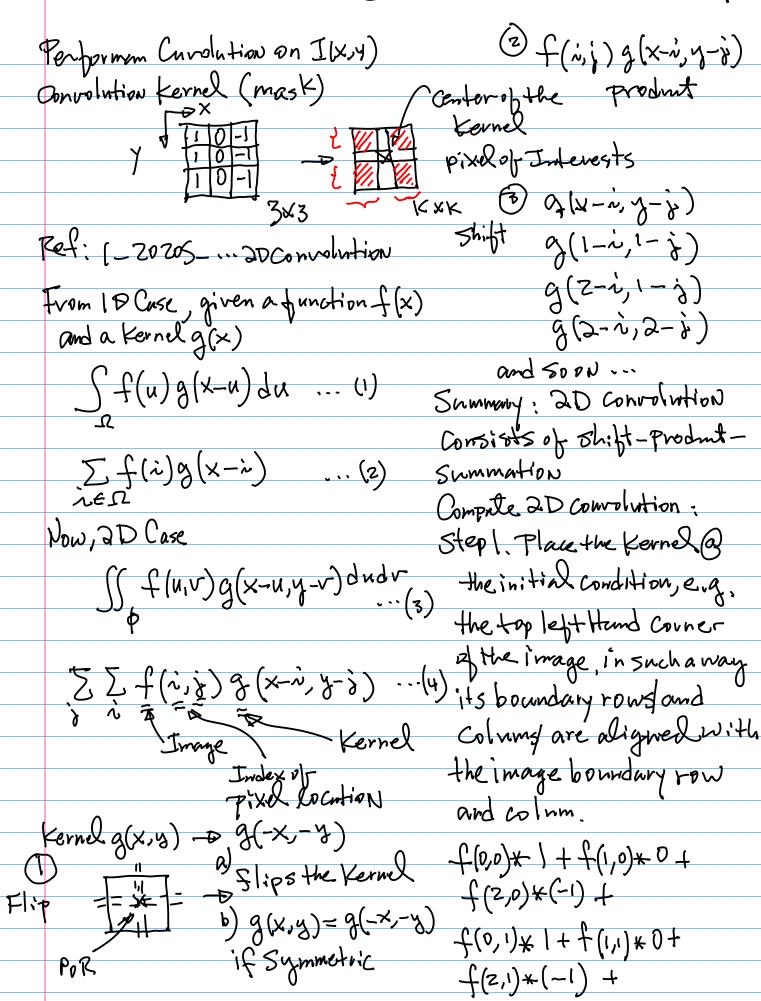
Biological System

Manny Avens = Recognition M NIST Deep NN Neurons (Celk)

Subjects = Celk

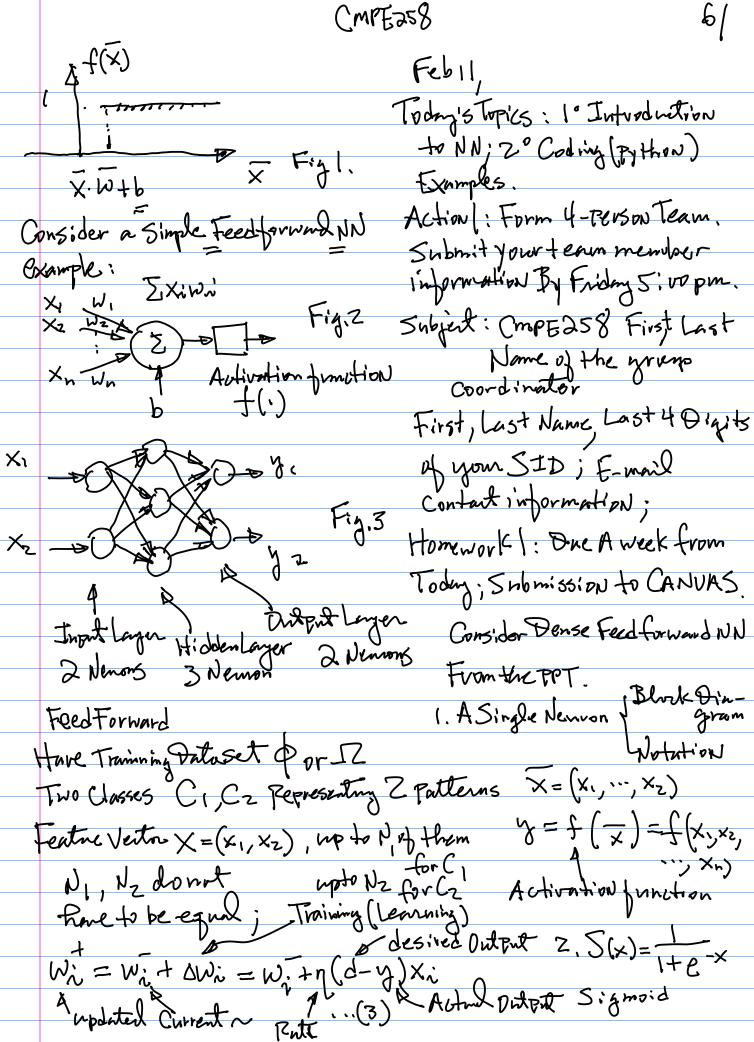


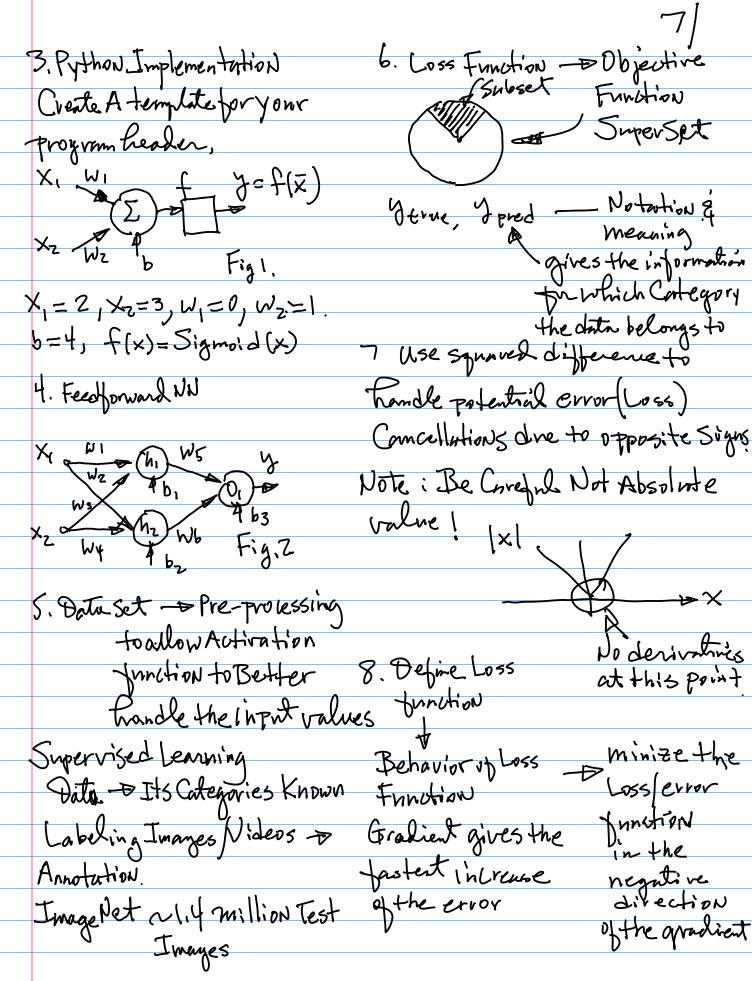


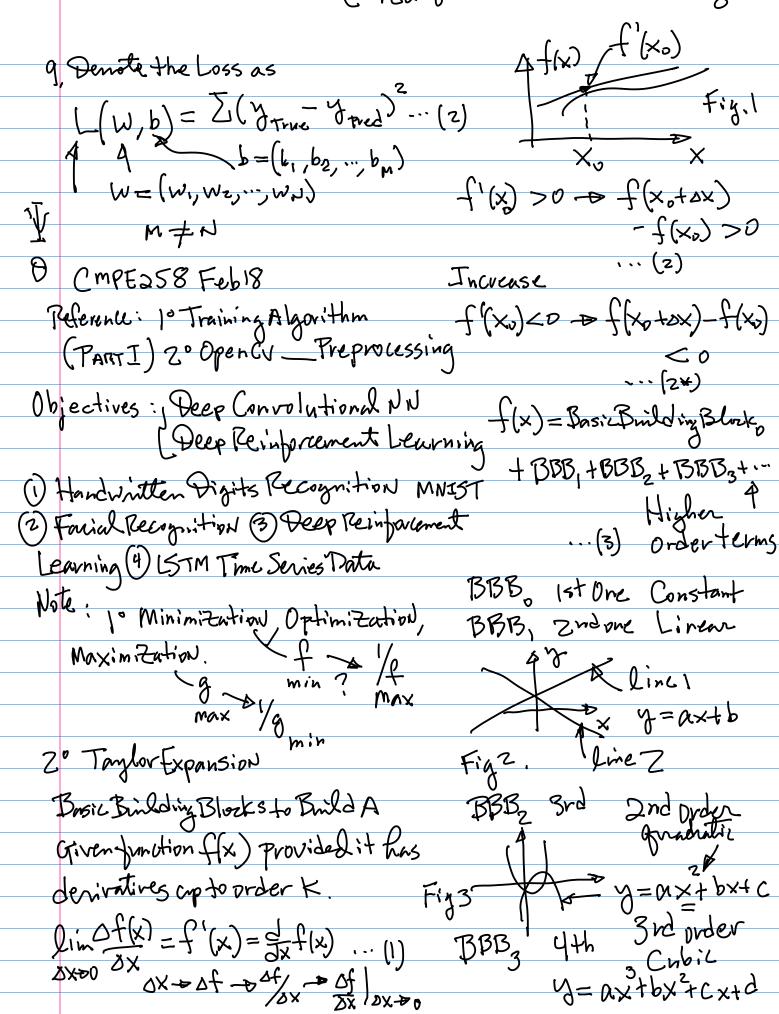


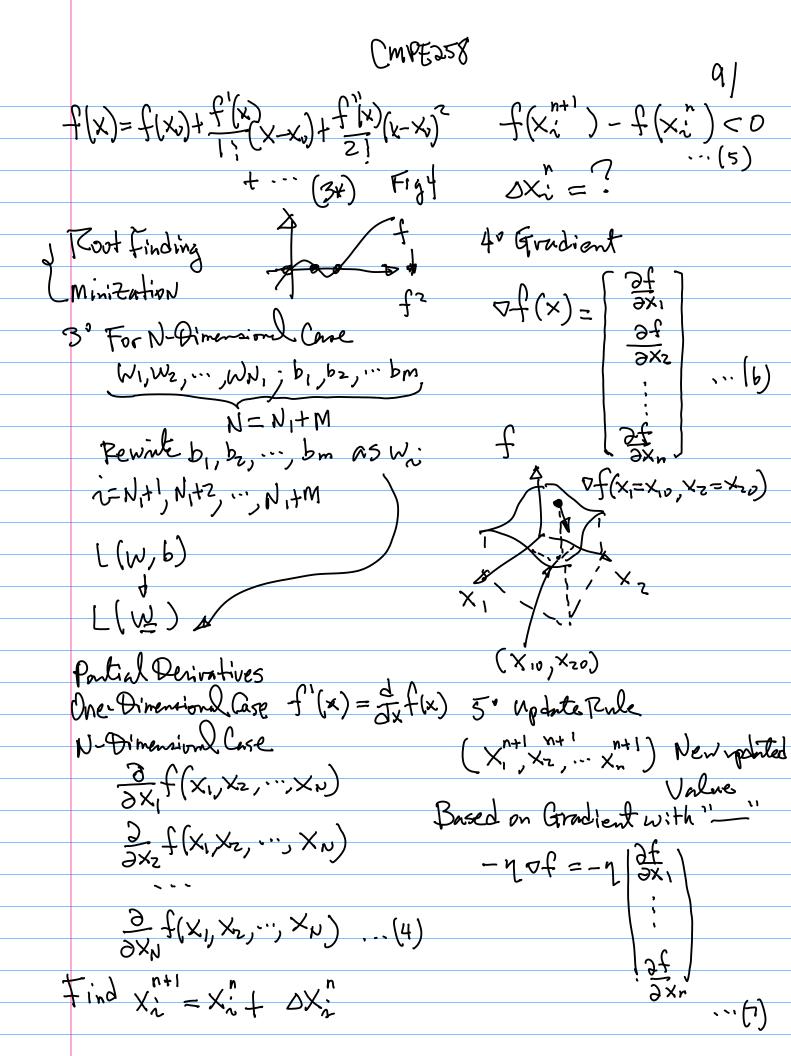
Note follow the example in Class. Col I(X,y)
POI. Consider Nemal Networks. Supervised learning Reference: 70-20215-2 Example: x Tight (X1, Xe, VI, Xn) — Weights (W1, Wz, VI, Wn)  $X \cdot \omega = (X_{\cdot, X_{z, \cdot \cdot \cdot, X_{u}}}, x_{u})$ (W1,Wz, ..., Wn) = X1W1+X2W2+...+XiW1+...+ - \( \frac{7}{2} \) \( \text{XiWi} \) \( \text{Vi} \) Define Transfer function  $f(\cdot)$  as

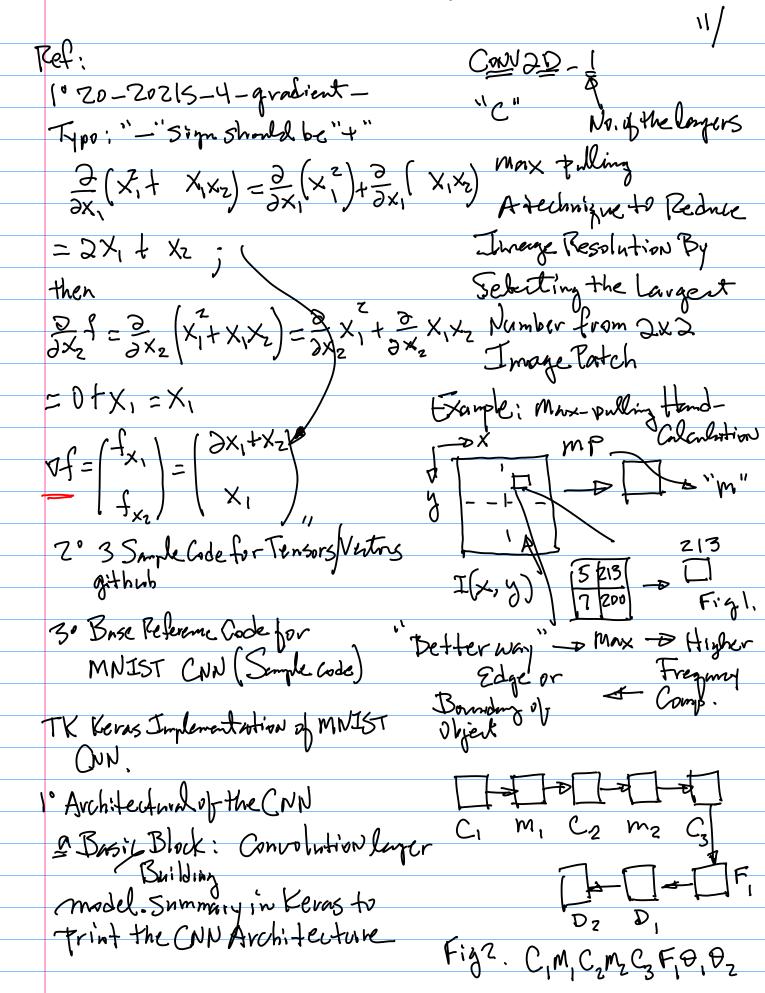
follows  $f(\overline{x}) = \begin{cases} 1 & \text{in } x \neq 0 \\ 0 & \text{in } (2) \end{cases}$ 

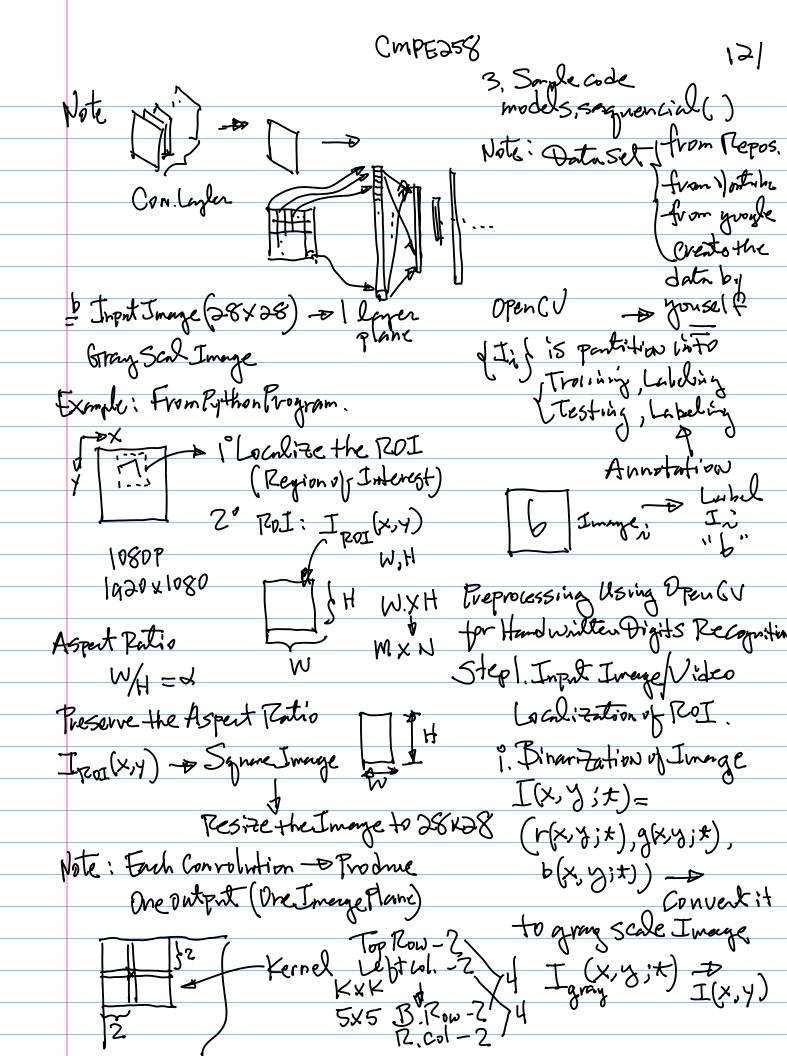


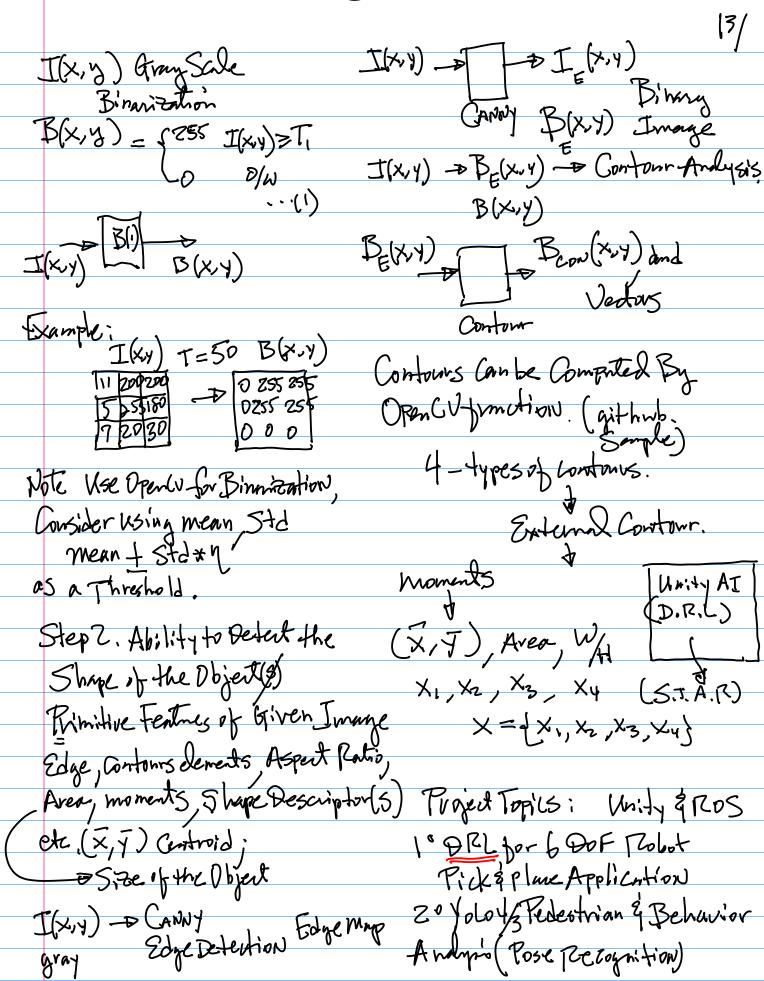












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Note: f(z;)= e = (1) 3° Unity AI and Self Driving Based on Unity ML-Trolleit 40 (STM Time Series Analysis for Abnormality Detection f(z1)+f(z)+···+f(z,0)  $= \frac{e^{21}}{2^{2}} + \frac{e^{22}}{2^{2}} + \frac{e^{210}}{2^{2}}$   $= \frac{e^{21}}{2^{2}} + \frac{e^{22}}{2^{2}} + \frac{e^{210}}{2^{2}}$ Here  $e^{21} + e^{22} + \cdots + e^{210} + e^{210}$ Zwecks from Today (March 4) Homework (Project 1: 10Pts Handwitten Digits Recognition) March 4 (Thursday) Topics: l'Havidont ON Therefire they ave Source Gode Walk-Through equal to 1. Z' Project 1 & Pre-processing Example Input [2.0, 1.0, 0,1] Technique Find Prob (2,=2,0), Prob (2,=1,0), To Be Posted DN CANVAS in 122 days Prob(23=0.1) Note: A Semester Long Troject is Sel From Egn (1)  $Prob(Z_1) = \frac{e^{21}}{\sum_{j=1}^{3} e^{2j}}$   $= \frac{e^{21} + e^{21}}{e^{21} + e^{21}}$ A Team Project, e.g. 4-person Ten work traether on your Project. And Submission is ALSO Team Submission. The I week = e<sup>20</sup> = p.7 Note e<sup>2.0</sup>+e<sup>1.0</sup>+e<sup>0.1</sup>
model.ordd f largers. Conv20
blotton before the End of Semester ( Topics ( Topics) Ref: 20-20215-6- Handont 1. Armitecture

