Tensor Flow, TF ZO Otancia). 4. Surgeon Cultoss & Coness Home work: To verlood a Cory of your un-affect transcript to Show the veryited courses solished ON CHUNNE

4. Textbook. Day Learning with Python.

August 23 (Two)

" (IVEX 5 hed)

SHIWARE TOOKS:

Flost Day of the Class

Mitson Considering & 1

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Text message Only.

Zoom Link)

of this where;

Next, Pooling - Tedustras of Tesolation - 752 between

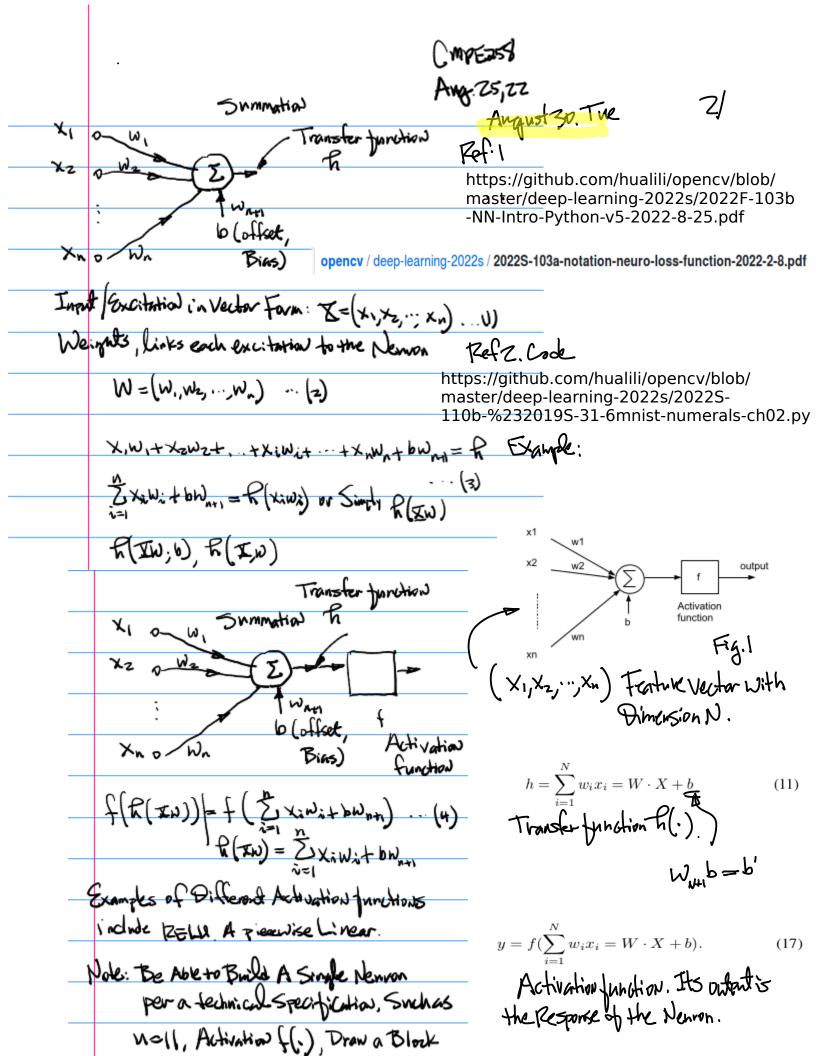
Yenas (ATS) for TS. Robot Usion Book By Home Marry Manerical "Dook, Grad Telerence for Open W Algorithms. From the Michilecture diagram: CIMI -> CZMZ-FLAHEN-> FFNI Grand Themstical Foundations)

To governlize the quick inspection of the the Colis, we have to importante the Behavior of Each Single Never as the Breiz Building Black.

5 Projects Mandating Assigned Troject LTEAM Project

(Mandahari) 4-Terrory Team. Treventation By the

Fundade the Secreptor



_)M7E258 Aug. 30. Look at the Concept & Definition of Loss Consider the carbatof the Newon function. y from Eq. (17). mathematically to Compare a Neural Notwark Oward of A Single Neuron. Orbert (Single Nervon Orbert) For Multiple Neuvon adout, see Fig. Z function f. function a Comparision of the Similarity or differce between f and q. Difference Between Two Functions. Take this Approach to define Loss function, Vo. of Outrot at the Dutat Layer. Fround Truth. Output (Frediction) from the Neuron y, N=1,2,...,M. In-practical Application, fc_4
<u>Fully-Connected</u>
Neural Network Mit ... (z) j=1,2, ..., P No. of Experiments Performed, Training Performed. оитрит 1=0,1,z,...,9 Fig3. (4 x 4 x n2)

Expand this to Experiment/Training up to p"Times

Note: Sqn(4-c) many lead to positive & Negative Tenns Cancellation.

Fix: Absolute Value 7 - Squared Insteady, then,

$$L_{total} = \frac{1}{2} \sum_{j=1}^{P} (\tilde{y}^j - y^j)^2.$$
 (23)

For a Single Neuron a the Output Layer

Training Based Steepest Gradient Descent Example: Given A SGD.

function f(x)= (3) Find its Derivative

Ext's define $f(x) \stackrel{?}{=} \frac{1}{2}x^2$ eady, then, $\frac{1}{4x}f(x) = \frac{1}{2} \cdot 2 \cdot x = x$

$$\frac{\partial L}{\partial w_{i,k}} = \frac{\partial}{\partial w_{i,k}} \frac{1}{2} \sum_{j=1}^{P} \sum_{i=1}^{M} (\tilde{y}_i^j - y_i^j)^2$$
 (24)

Well Behaved "System (Function) ->

derivative frontial Derivative

up-to order K"