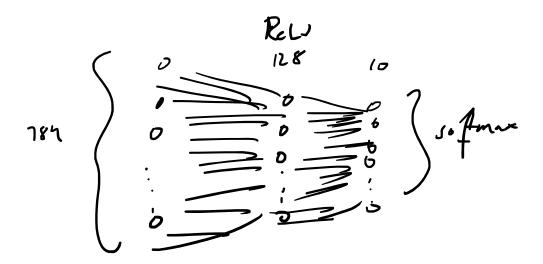
2025-07-29 - Compare and Contrast among activation functions, loss functions, optimizers and regularization for choosing the appropriate
method for the given application. 29 July 2025 11:3 : (MNIJT):
0-9 Digits (Hendwritten)
70000 × 28 × 28
=> hryscole: [0-255)
70k lobels Tok lobels Le restorus Le rest
(70000 × 784) [Truin S Tot
Loh Gold
28 [mm. 1/-1]
28 × 18 ≈ 784



Parameteria Calabetion:

Layer (type)	Output Shape	Param #
flatten (Flatten)	(32), 784) 7	0
dense (Dense)	- (32) , 128)	100,480
dense_1 (Dense)	(32, 64)	8,256
dense_2 (Dense)	(32, 32)	2,080
dense_3 (Dense)	(32, 10)	330

2) Batch Size

Features

Perwetus (), Con

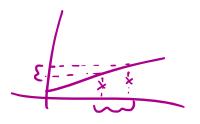
Parameter = (Previous Features & Consent Features) + Cons

= (784 × 128)+121 = 100,480

=> Dunfitting: Naturale training data.

Overfitti-Regularization Add more Early Stopping training dala Batch Norwitation => Replanitation '. Penalty LI - Lasso L2 - Rite 11+12 - Elastic => Like





$$\Rightarrow \qquad \stackrel{\wedge}{y} = V \cdot x + b$$

$$\int_{a}^{b} \int_{a}^{b} \int_{a$$

$$C = \frac{1}{N} \sum_{i=1}^{N} \lambda(y_i - \hat{y}_i)$$

$$\frac{1}{2N} \left[U_1^2 + W_2^2 + \cdots - U_N^2 \right]$$