

Sjamese:
Specially used in Facial Recognition
System. → Till Now: Image/data > 0/1 (Output) y Now: (Comparison Architecture) :-Image 1

Architecture

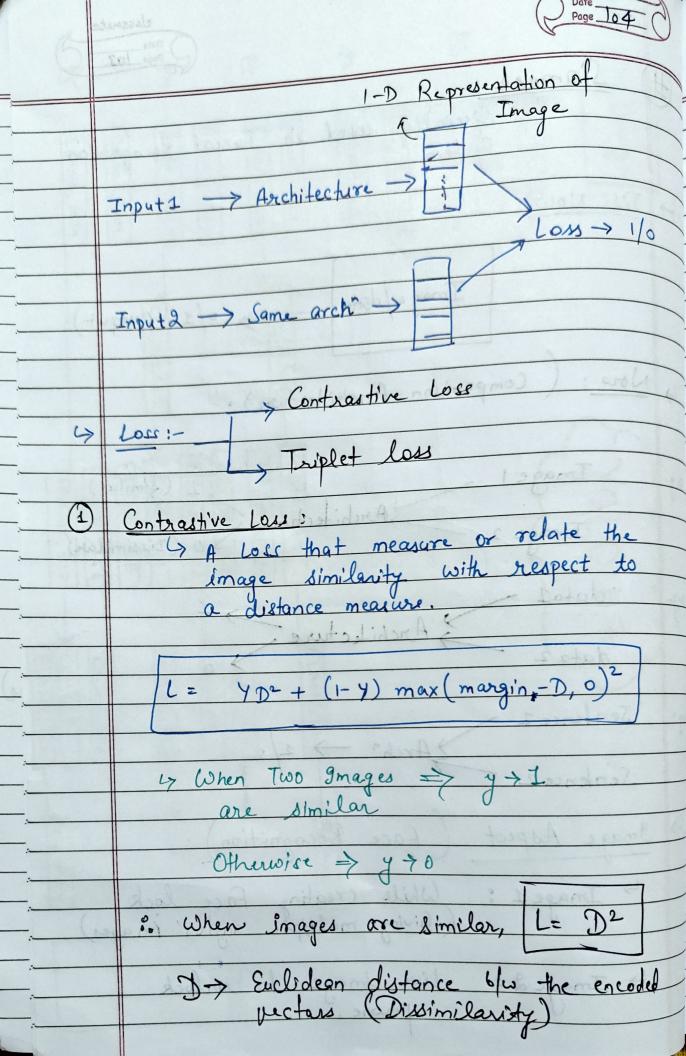
1 (Similar)

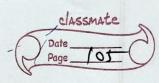
Image 2

1 (Dissimilar) data1 data 2 Architecture Sentence 1

Sentence 2

Sentence 2 5 gmage Aspect (face Recognition): > Image 1: While creating Face lock
(Giving multiple angles' images) 4> Image 2: Live image to unlock





reduce De to "0" we have to Reduce > D2 > 0 Ly When images are > y=0
dissimilar L= max (margin-D, 0)2 "Margin" is a kind of benchmark that determines the distance we need to maintain. Manimize 7 D

OU (4) - (9) Minimize > L e-g. Margin = loo (constant) So, D17 => L JJ Triplet Loss [By Google in 2015] Specially used for facial recognition
systems. Triplet -> Means -> Three Elements

Page a. Anchor gmage b Positive gmage c. Negative gmage Three elements > + Anchor Image:

L> Reference Image creating Face Lock.

eg. Image while creating Face Lock. * Positive Image:

Ly Logging in the system any time
after that. (That person's image) Negative grage:
9 Another person's image. d(A,P) - d(A,N) 20 A -> Anchor Image

P -> Positive

N -> Negative 1, Taplet Loss J. By Google in 2015 $L= \max \left(d(a,n)-d(a,p),0\right)$ $L = \max \left(d(a,n) - d(o,p) + \max_{a \in A} (a,n) - d(o,p) + d$