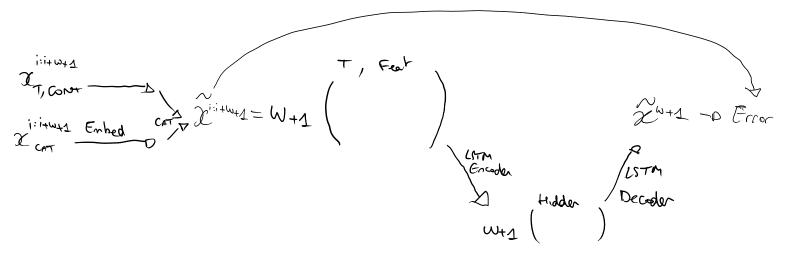
LSTM: prediction expens

Scare is production error



AE-LSTM: Reconstruction ERROR



Deep One-Clan Charrification (DSVDD): map normal data close to

2 Certer; anormal most be gar.

Strong Embed Description of the formula of the fo

DROCC:

1) Clanifer:

generate somal data

Pb: We do unexperied levering so we have only I class.

-D During having, we will generate Jarke Samply. 2) TRainna: for each epoch: normal pred, $\tilde{\chi}$ = notel (normal dota) normal loss = BCE (normal pred, 1) anormal = generate anormale that fools the model is B(E (anormal O) >>0 Using G.D. (europeal must live in a dust around the mound) they are generated using & fred anomal = medel (anomal) loss anomal = BCE (predonarnal, O) loss = loss 2 notrel + loss natural GD w.r.t loss. S'are = model (xtest) = normal proba guen the model. Uses exceder and decader with past remory and ever knowledge TRAN AD: 4) Encoden: + DP X - AH(x,x,x) PD D FC(r(FC)) D - POUTPUT 2) Decoder: (X-DAH(X,X,X) DP-DX-DAH(x, memory, memory) DB FC(T(FC)) D-D OUTPUT. memory

3) The Whole Architecture:

Phase 1:

Phose 2:

MAD-GAN:

2) LSTM-Discrimnation:
$$2 \in \mathbb{R}$$
 LSTM+F(+Signed PER 4,B,1

3) Best Catent Representation:

2) GD:

i)
$$eec = gen(z)$$
2) $eoc = gen(z)$
3) $eoc = gen(z)$

3) cetum 2

4) Train the GAN (Gen+Disc) Normally

5) Test: 12 test

7) anorally score =
$$\lambda_1$$
 (dux lon) - λ_2 (rec (on)