**Activation Function**

Sigmoid

TanH

ReLU

LeakyRELU

SoftMax:

ReLU6

Softmin

Softmax

LogSoftmax

LogSigmoid

**Loss functions**

Smooth L1:

NLL:

CE:

BCE:

Margin Ranking/Contrastive:

Triplet:

DataAug: flip, scale, rotate, intensity/contrast var., crop, pad, noise, affine, perspective

**CNN**

Receptive Field at :

**VAE**

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MC Estimation:

**GAN**

**RNN**

BPTT:

Gradient Clip: . IRNN:  **(orthogonal)**

**LSTM:**

**GRU:**

**LM:**

Attention: .

SoftAtt.; HardAtt

**MHA:** .

: Time: . Space:

Time:

Space:

**Positional Encoding**

sinusoid embedding:

位置 的 个分量。

Normalisation:

Pointwise-FFN:

**DPPM:**

A math equations and numbers

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