Toursel's neural sequence transduction models? encoder-decoder 72.

Turoder: (M1,..., M) - (Z1,..., Zn)

Turput mapping auto-regressive: consuming previously generated symbols as additional raport. decoder: (ti, ... Zn) output (y, ... ym) Trunsformer's file 13% of 6y using stacked - celf affection + pointurise fully annected layers.) < 2124, 2124 72.

1) encoder & Druster Stacks

encoder: brief layers stacked multi-head celf affection; quy this top for mout of the posterior was fully connected.

2 gub layers posteri was fully connected.

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3 to the first connected connected connected. residual connection & dayer normalization. 智智等 (layer Norm (at Sublujer (21)) हिर्मि केपरा मिस ३ ७ में White HOLH 32 le 24/1824 output on 11=5/2 ; residual connection Bolton/6100 decoder: Greet layers - multi-hand self attention & revised; of 34011 375021 823 & plus of-1242 2271

That 3 sub layers -Syst of not cult beed attention. @ व्यापाट प्रजापिक वि + gower H34是 野羽出了 7/ 21614 Layer Norm (N-) Reklayer (M)

- @ 8nt 643 to → concatenate +>+22x tt ~
- ③ FFN 影构 社 社 克内 明初如
- ◆ Saftmax 对告的对 去了的的 ◆ 2166年至于时间对

2) Affentin

Q=(K,V) ⇒output mapping

output: Values +55

이(cu 가장); Q-K간데 GIAS 흑장이는 반바당 업무로 72% compatibility function

· Scaled Dot product Attention

Q, K < dim=dK

V & dim = dr

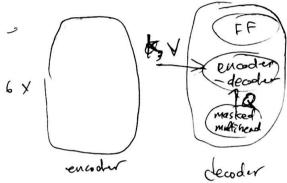
Attention (B, K, V) = Softmax (QE')

>452M 502

Multi-head Attention () 64 x 874

(1) 64 x 874

(parallel) Multi-hard (QK, V)= Concat (head, head,) WO where head; = Affection (OW, FW, VW;) dk, du = dundel = 64



Connected des=2048 (inner layer) FFN(a) = max(0, xW, +6,)W2 +b2

Relu

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dk 2002 additional affection Mood dot 204 蓝(dk AHIZYX) 5所个 1917时至

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· postronol encodes < GAIGN GENZ 3, den=512

. 7 + HEZZZON OK dropout : reszdual dropout - Eluis Relaborations = 3015

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- ・ 関ラフト: かり とれて ちんなへる) フルキ をか

Result

(K,V) druzt hal variation 7/24 model Variance 723.

- · dx V -> ettents U : dot producty to the Perting the Merch to the Mer
- , 10到 主4年 45 个
- · dropont < 422 8 5261 Eding
- . STAUSOIDAL postford Enody a lewned postfound Eucody: base modelet of \$101 X

Conclusion

- · recurrented 211/61 affection eggle Trasformer.
- · Sota model west tourny (125. 418 1120 nm)
- · Apri: 2/12 Mel papielnules Transformer 28.

Further Tasks large EMPUT (OIDIN/MUL) 200419 local, restricted # HENREMPHUZ 42.