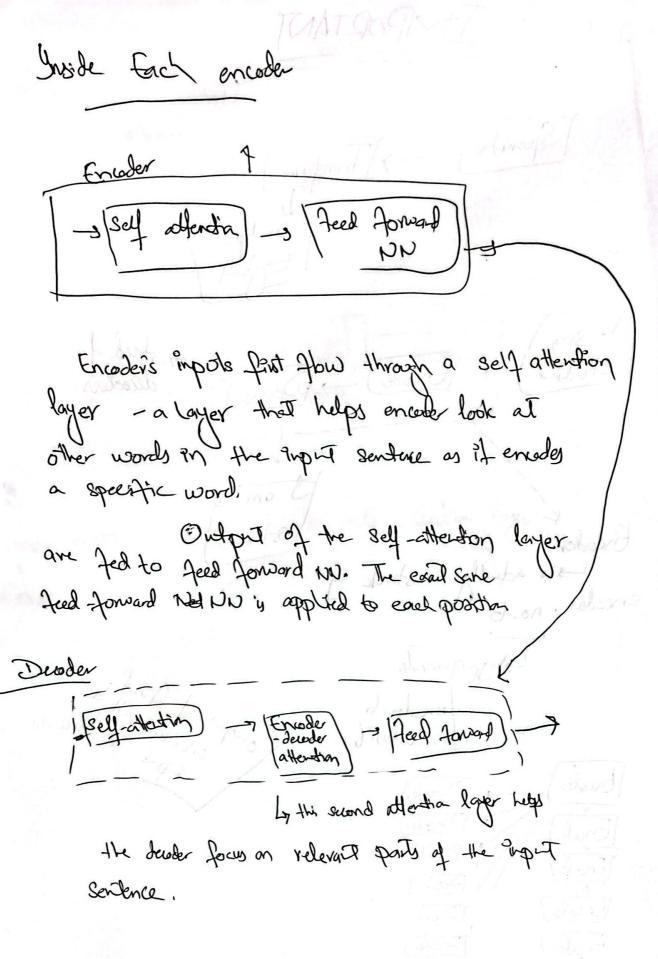
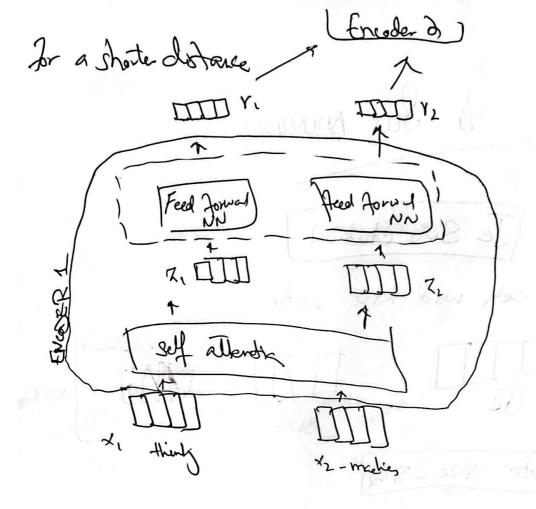
Je sus Shiperparable



VI SELF BITENTIONimpri. Te sois etudiant tion each was into veder. vector Size -512 there vestors are pained to self affection layer encoder 2. Self attention



Self-Afection,
but how will it give import relate 'it' with arums?
For each word we crede, Overy, Key and Kalve rusten

6 Pople

WHENSTON J "Machine" Think Input 512 dim Embeddings Querios 1 Leys 142 Ki Values Ma, WK, W are 3 weights we randomly initialized. It will be updated based on back propert. Sb, 19/2 = X2. W9 64-2 9, = x, . Wa why multiplied? INDI mobipled by weight big this mu DNN operte. See for WK & WY K1= X1. WK = X1.WV

So, Fare Thunking "Madrie" Ensellig Quero 9, III m [] Keys q Ki III KZ III Valus V2 1 UII N Score for each I every word, we'll moldiply 2, 40kg 9. K1= 112 9. K2 = 96 920 K1 = We need to find out must related words. adin of Quitanida Dride score by 164 Disale of 264 (Tok) = 07/2 96/8 Softma+ 0.88 'Mechy !)

Madrit

Softmax Visithmax ville

V2 × Softmax To Keg reletions

Sum:

Z. 1 + VIJY

p andra of there,

Motor Multin

Smooth Sm

X × W" = K

No windon She Sum el words are beig punch parally. Condens

Sylve (Q × K⁷) V = 12

Problem?

Ho We are one one We, one We for

all woods. The is sight head attente.

She We, We, We for all words.

but problem lies when there not myte

be imported comment.

So, we might use multiple weight.

MULTI-HEAD A HELD

4 to find imports of other was too

mean not only finds sight wood but of the way

multiple releved wand.

Assert head of Qo Had, Was

Vo War

Vo W

1Her 5

eight heads Loeight differ med weight motives.

So no

Thing mach

Attitute 10

Led 2

Led 2

3

3

22

3

4

24

7

7

But we are supposed to get 1 z volve not 8.

1- we'll concedent all Zg

2- instidu another W' metric wold be updill in back

W' will be multiplied with constell of property

result would be []

POSTTIONAL ENCEDING Street words.

IMPUT Je SUIS ETUDIANT

Embeddy X, 72 +

Pasithal 12 encody to

encody to

X, X2

tien

to would be requer to to the to.

Ti hoppen byen Pasi to encodes

HE SHA

In encoder, befor party to feed forward

Each encoder and often self theirs, we'll

be party apply normalizati and

a residul carret.

Glike is RNN you are stapp one stap.

If i've if self attell is not right, you are skippy it this residul nothing

In 200 4 Normaliel

layer non (X + 2)

Ly enade apt

147

In Deuden

[Encoder Delader Attenta]

Is some only of enable
5 proved into the layer of Jecodes

odft- one word I - to.

The each word pelit that
while atput wh be give into

to deader. It won't stop

until CEOD.