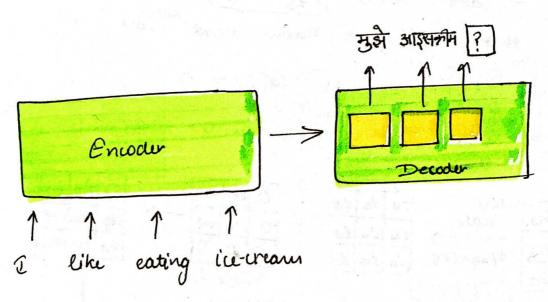
Cross difertion in Transformation

What is Gross Attention

Cross-Attention is a mechanism used un transformation architecture, particularly ûn tasks Involving Sequence - to - Sequence rdata like translation on summarization. It allows a model to focus on the different parts of an input sequence when generating an output sequences.

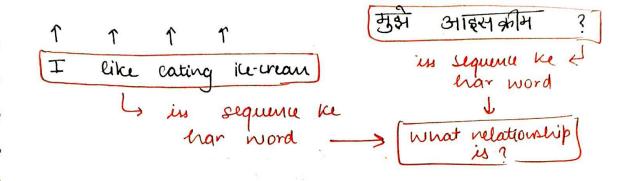


How to predict third word?

- > 1) What generated till now → Sey Attention
 - 2) Input Sentence (I like eating ice-cream)

Sey Attention -> Nent word Pichble same predicted words se kain related brai





	मुझ	आइसकीम	खाना	<u>પસં </u>	है
I		• -	•	•	•
like			•		•
eating	•	•		•	•
ice - cream			•	•	•

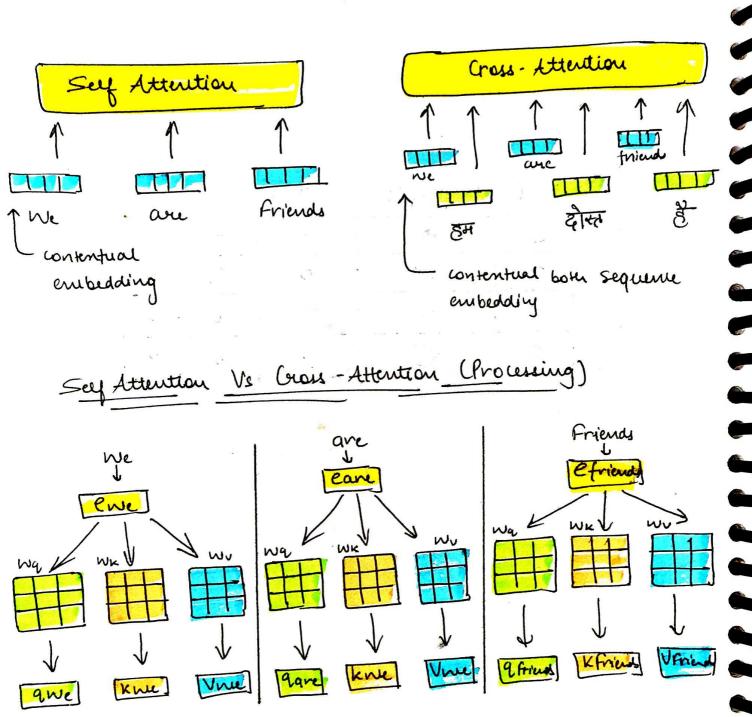
Ne have to find the similarity between different Sequence using <u>Cross Attention</u>.

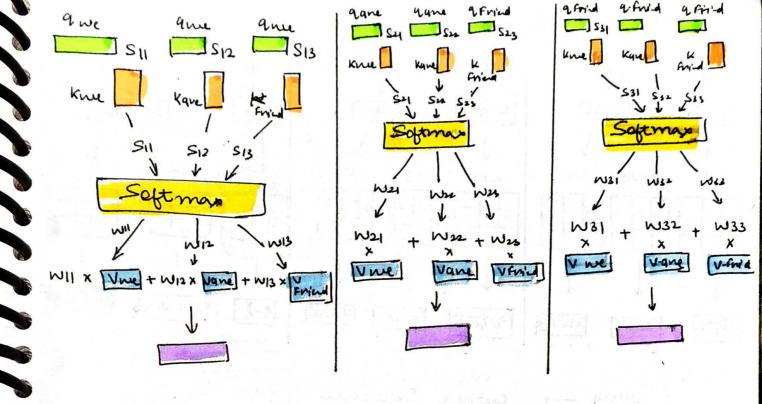
Cross Attention is correptually very similar to seef attention.

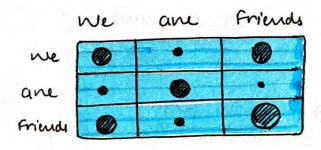
Self-Attention Ve Cross Attention

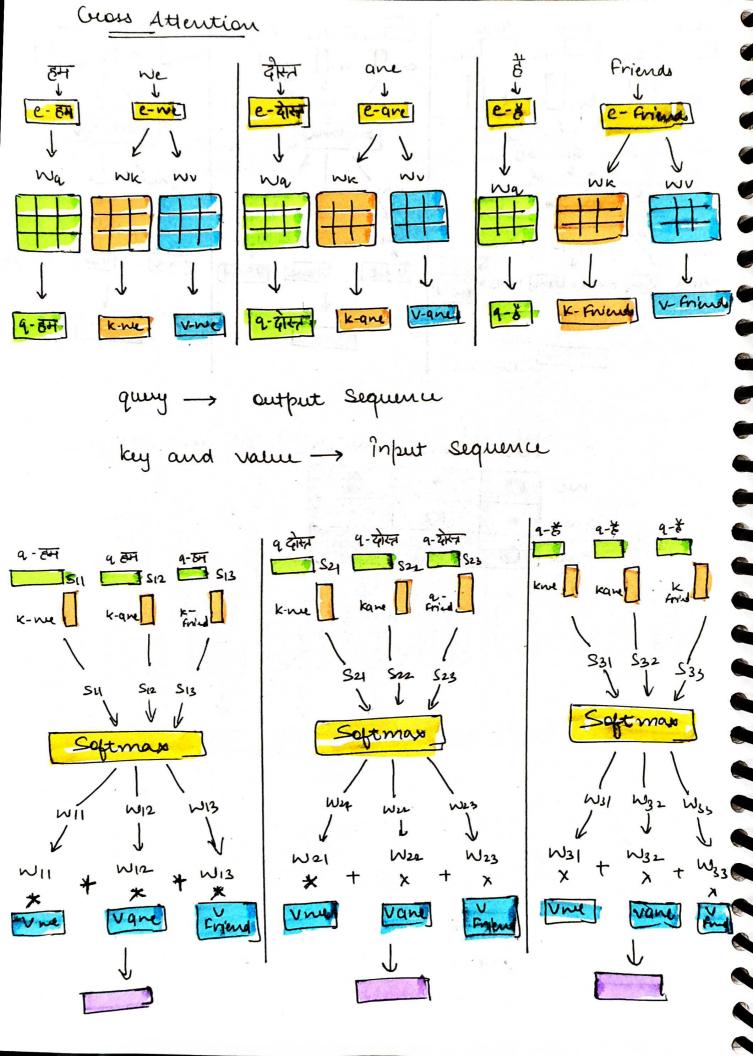
- 1. The input
- 2. The processing
- 3. The Output

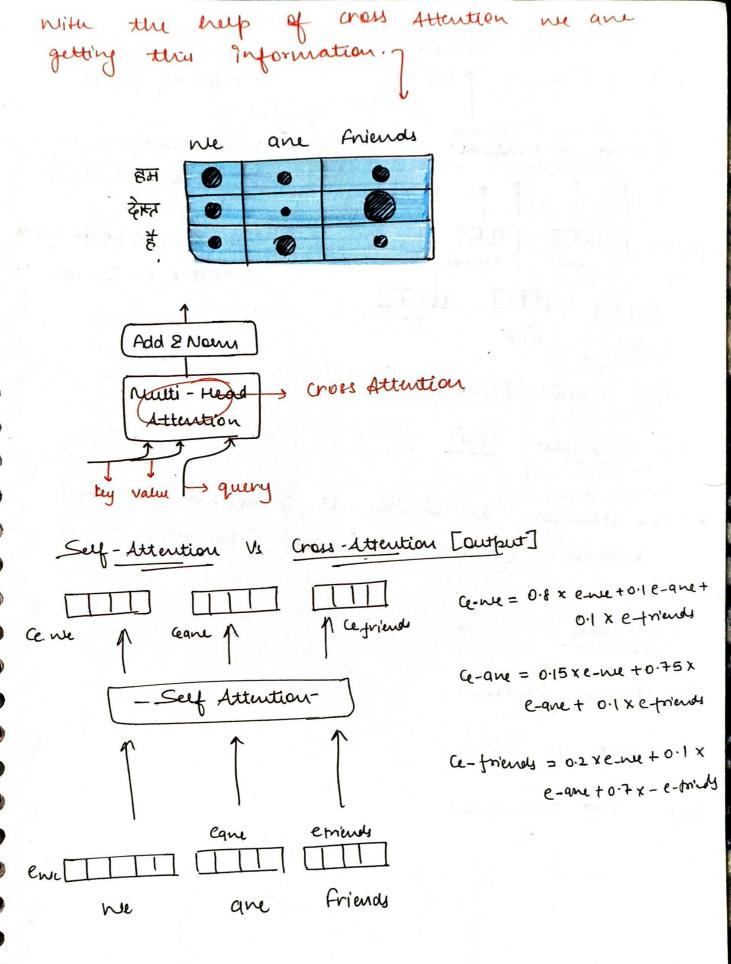
Sey-Attention Vs Cross Attention (input)

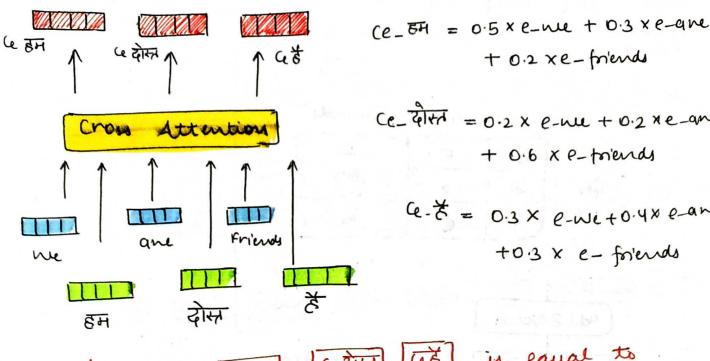












Ce_ altr = 0.2 x e-ne + 0.2 x e-ane + 0.6 x P-triends Ce- = 0.3 × e-we+0.4x e-ane +0.3 × e-foiends

No. of output [CEFH] [GZIKA] [GZ] is equal to No. of imput हम विस्ति हैं

* Cross Attention is similar to Bahadarsan/Luong Attention (Mention in Research Paper too)

Use- Cases

- (1) Image Caption
- (ii) tent to image
- (iii) tent to speech