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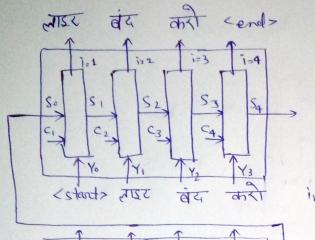
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## ATTENTION MECHANISM



ho the lights

i= time step Ci = attention input

in vanilla
ercoder decoder
input = [Yi-1.Si-1]

in vanilla enoder-decoder cuith attention mexhanism

input=[Yi-1, Si-1, Ci]

Cy = xihi + xi2h2 +xi3h3+xi4 ha x; - eneight (scalar) h; - encoder's hidden state (nector) some for other attention input

Ci = Exij hj

hence.  $C_1 = \alpha_{11}h_1 + \alpha_{12}h_2 + \alpha_{13}h_3 + \alpha_{14}h_4$   $C_2 = \alpha_{21}h_1 + \alpha_{22}h_2 + \alpha_{23}h_3 + \alpha_{24}h_4$   $C_3 = \alpha_{31}h_1 + \alpha_{32}h_2 + \alpha_{33}h_3 + \alpha_{34}h_4$  $C_4 = \alpha_{41}h_1 + \alpha_{42}h_2 + \alpha_{43}h_3 + \alpha_{44}h_4$ 

Now how to colorlate <? lets take an example <2; <2, -> alignment/similarity soore

