Attention in transformers (in LZM)

- allows each word (foren) to interact with our another in Ap input. They pass information with one attacher allowing the model to under stand context about the words and the positions they appere in.

attention is figuring out that responsible for

by the River Bank is Different from Deposit at the Bank

Giner bank has the same position and is same word it will have the same embedding but both words have different mraning and the only way the word "Bank" can find its meaning is by the words possing information back and forth This allows the Attention model to update the vectors (mord)

allowing the model to understand the true (same vector) allowing. The model to understand the trup meaning of the prompt and not Just the ind avisual worlds in isolation, Ex: ser how offer attention Bank aligns with "bodies of Ex

after (New vectors) Tocean stake

(New vectors) Tocean stake

(EX)

Example:

- input: a fluffy blue creature roamed the verdont forest

· Now ionagine the only whate we core about is having the adjectives adjust the meaning of their corresponding norm (too add context to words) This is called A Single Head of Attention. in reality an Attention block consists of many different heads. called Multi Headed Attention and all these heads are ran in parralle) and update words based on many different words so that all words have a Ediance to uplate all other reserved words . not just River attracting to Bank or Depoit 54 attending to bank (single attraction)

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