More Prompt Engineering Approaches (simple, cos ARQ) resoning salely dependent Predefines the constraints initial final output listed in anery? (Coponse Positional Embeddings - in short: a positional embedding vector is a vector added to foten embeddings to encale The position of each token in a sequence, so he model knows the order of the words - Problem: Transformers Like GPT process all tokens in parrallel (unlike RNN) They don't have a idea of sequence order. So feeding it a sentence Like: "The cat sat on the mat", without any extra into, they only see a bog of ombedsings not which word camp first. - Solution: Positional embedding, a positional embedding is a vector that encodes The position of a token only (where in the sequence it is) position 0,1,2 etc. These are added to the token embedding (also rector) before Feeding Mem into the transformer So Fr: input: ["the", "cat" "sat"...] Token embedding) F("the", E("cat"), E("sat"...] P-sitional embeddings P(0), P(1), P(2)... Model uses E("the") + P(0), E("tat") + P(1)...

Fixed or learned vectors this was model TWO Main. Fixed (sinusodial): based on sinces functions of position (as in the Attention is all gon need poper) knows which token cam! Learned: Trainable vectors 112-trained the same way as Types word (token) embeddings during training (used in GPF)

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