OpenAI Parameters

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## Messages:

* The message parameter contain the chat history of responses in array of objects.

Each object in message has three properties.

* + **System** sets behaviour of AI responses. E.g Act as doraemon.
  + **User** represents the chat from the client or user.
  + **Assistant** store AI responses
* **Content**  have the real text of responses.

## Model:

* It specify the model of OpenAI using like gpt-3.5 or gpt-4
  + Its important because different models differ in cost and responses

## Max completion Tokens:

* The amount of tokens chat gpt give responses are termed as max completion tokens. It limits the use of tokens, because we are billed based on token amounts.
  + **E.g: max\_tokens=120**

## . n:

* It gives number of responses to our prompt more the number of responses more tokens are used and so more cost. It help to get different responses for creative content creation.

**E.g n=2** gives 2 responses of same prompt.

## Stream:

* If **stream=True** then Ai will generate text in real time instead of all at once. Its like typing effect it makes responses faster

## Temperature:

* Its value between 0-1.At lower values, AI gives responses in factual and strict way while in higher like 0.9 it gives responses in creative way may be it will have some jokes like if we ask **“what is 2+2?”** at 0.2 it will respond **“2+2 equals 4”** but at 0.9 **“yeah, it will be 4, but if they are fruits then it will be a salad”**

## Top\_p:

* Its like temperature but it uses nucleus sampling (probability) at higher it uses words with higher probability while at lower it has more choices.

If we use high temperature and high top\_p. Responses will be wild or quirky and very creative.

## Tools:

## It allows ai to use external tools like interpreter, web search, canvas, calculator or may be apis i think so.

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