steps in building the recipe generator:

1. Fine tuned a llama2 model with data from serious eats website with a data of 58 recipes

Before fine tuning :

Prompt: "I am having the following ingredients, suggets me a recipe from these ingredients . i have onions, tomatoes, lentils, chills, eggs, carrot, curry leaves. dont add any extra ingredients out of mentioned before"

Response:

<s>[INST] I am having the following ingredients, suggets me a recipe from these ingredients . i have onions, tomatoes, lentils, chills, eggs, carrot, curry leaves. dont add any extra ingredients out of mentioned before [/INST] Great! Here's a recipe that you can make using the ingredients you have:

Lentil and Vegetable Curry

Ingredients:

\* 1 cup split red lentils, rinsed and drained

\* 2 medium onions, chopped

\* 2 medium tomatoes, chopped

\* 1 cup chopped mixed vegetables (carrots, bell peppers, potatoes, etc.)

\* 1 teaspoon ground cumin

\* 1 teaspoon ground coriander

\* 1/2 teaspoon turmeric

\* Salt and pepper, to taste

\* 2 tablespoons vegetable oil

\* 2 eggs, beaten (optional)

\* Curry leaves, for garnish

Instructions:

1. Rinse the lentils and soak them in water for 15-20 minutes. Drain and set aside.

2. Heat the oil in a large pan over medium heat. Add the chopped onions and sauté until they are translucent.

3. Add the chopped tomatoes and sauté for another 2-3 minutes until they are soft and mushy.

4. Add the mixed vegetables and sa

After fine tuning for same prompt the response is same exactly.

Without change of one single word

So what could the reason for this nature of the model:

Suspected reason:

Since llama 2 was pretrained on a huge amount of general data corpus . 58 recipes data is not sufficient and it does not have a great impact on weight updates with that just 58 recipes data. So most of the responses are generated from pretrained knowledge only.

Possible solution:

1.Increase the size of training data by adding the more recipes

2. changing the sys prompt:

At present the prompt is : Task: Provide a step-by-step recipe based on these details.

Lets change it to : Task: Provide a step-by-step recipe based on these details and available ingredients, without involving other ingredients.