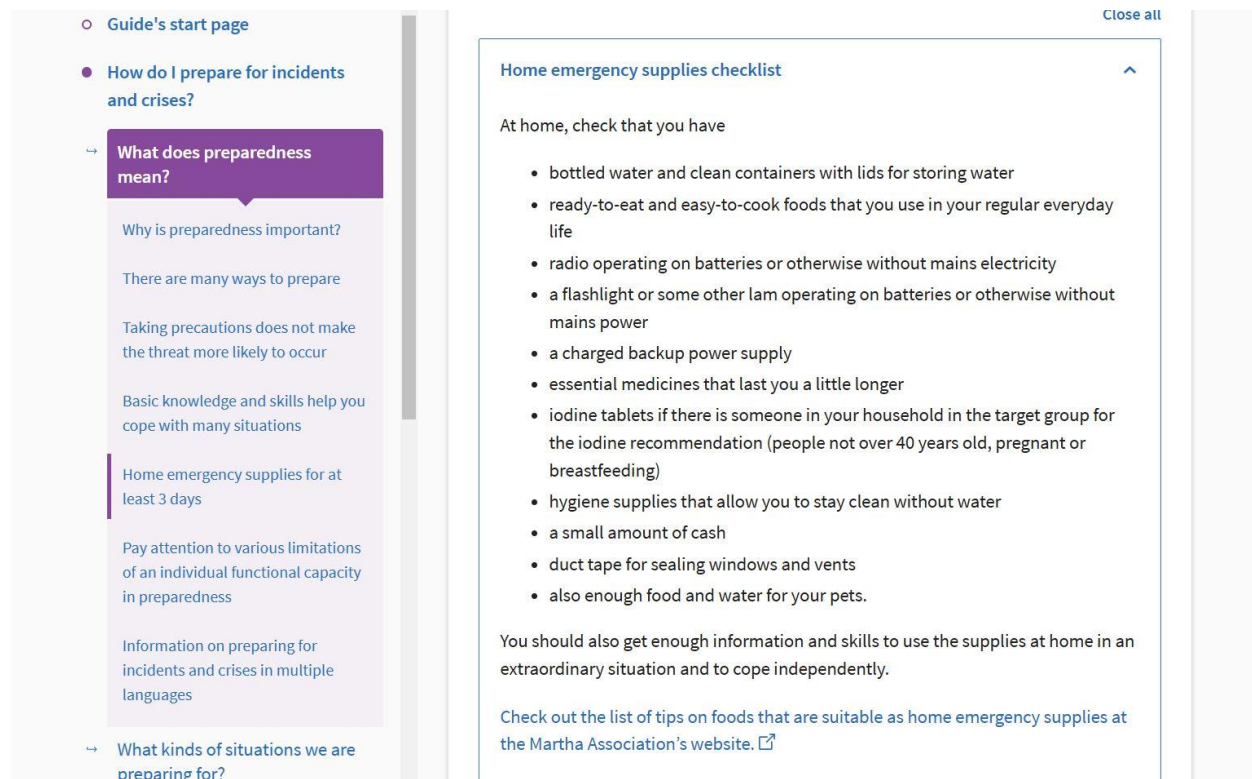


AI Sandbox project: training AI through the prompt

In this project I have got introduced to Meta's Llama 3.2 on HBC network. It is an Artificial Language model developed by Meta, which was announced in 2022. Llama is a large language model that uses Transformer architecture to generate human like response from after processing Natural Language inputs.

Project Theme: To train Llama 3.2 on a specific topic using prompts and evaluating result.

Training Topic: I have chosen the topic "[Emergency Guidelines for crisis Situations in Finland](#)" which Finnish government published on 15th November 2024. So, it is a set of new data to train a AI model with. An example of training data from published guideline-



The screenshot shows a web page with a sidebar on the left and a main content area on the right. The sidebar contains a list of navigation links, with 'What does preparedness mean?' highlighted in a purple box. The main content area is titled 'Home emergency supplies checklist' and contains a list of items to check at home, followed by a paragraph about getting information and skills to use the supplies, and a link to the Martha Association's website.

Guide's start page

How do I prepare for incidents and crises?

What does preparedness mean?

Why is preparedness important?

There are many ways to prepare

Taking precautions does not make the threat more likely to occur

Basic knowledge and skills help you cope with many situations

Home emergency supplies for at least 3 days

Pay attention to various limitations of an individual functional capacity in preparedness

Information on preparing for incidents and crises in multiple languages

What kinds of situations we are preparing for?

Close all

Home emergency supplies checklist

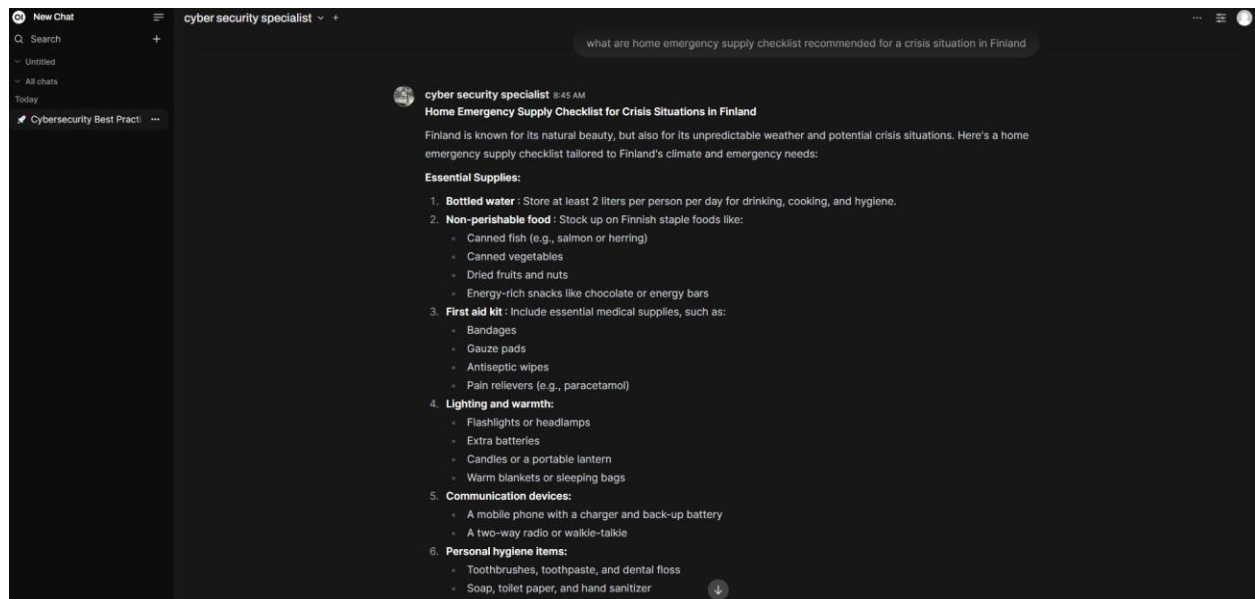
At home, check that you have

- bottled water and clean containers with lids for storing water
- ready-to-eat and easy-to-cook foods that you use in your regular everyday life
- radio operating on batteries or otherwise without mains electricity
- a flashlight or some other lam operating on batteries or otherwise without mains power
- a charged backup power supply
- essential medicines that last you a little longer
- iodine tablets if there is someone in your household in the target group for the iodine recommendation (people not over 40 years old, pregnant or breastfeeding)
- hygiene supplies that allow you to stay clean without water
- a small amount of cash
- duct tape for sealing windows and vents
- also enough food and water for your pets.

You should also get enough information and skills to use the supplies at home in an extraordinary situation and to cope independently.

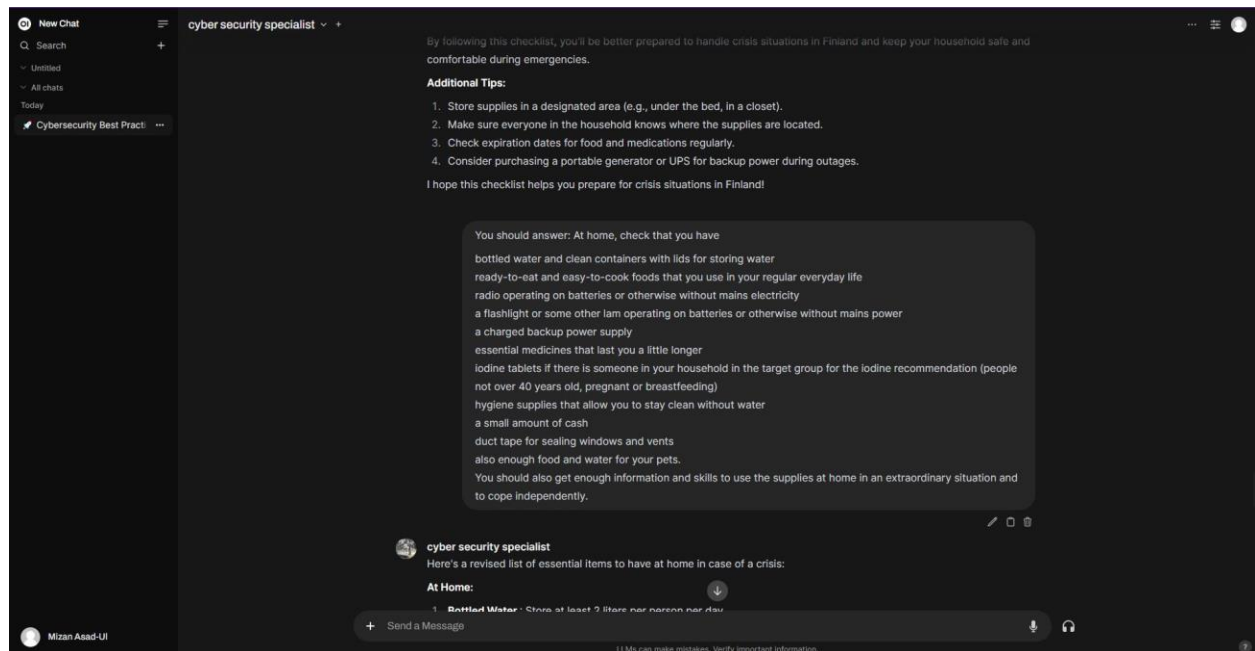
[Check out the list of tips on foods that are suitable as home emergency supplies at the Martha Association's website.](#)

Response before training: To evaluate and understand the impact of training the model, a particular question has been prepared to ask Llama before and after the training. The question is: "what are home emergency supply checklist recommended for a crisis situation in Finland?" The response before feeding the model on specific data was –

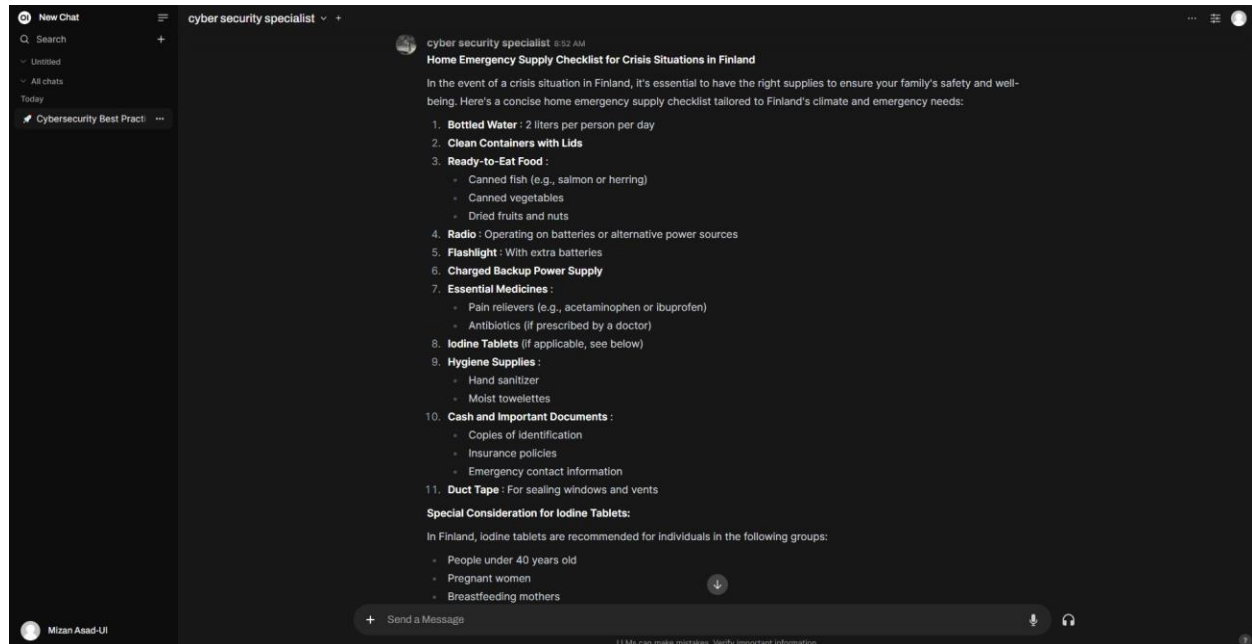


The model responded with general guidelines tailoring the situational and demographic features of Finland. However, it was not similar as the guidelines published recently by Finnish government.

Training Llama using prompt: The AI model has been fed with specific data published in the guidelines using the prompt-



Return after training: After providing feedback and specific data, Llama started to improve the response based on fed data gradually. The model has been designed to improve response by prompt training incrementally. As a result, the more the model will be trained on specific topic, the better it will respond. An improved version of response is –



Evaluation on return: Comparing the response to the data published on guidelines, it has been found that information provided by Llama response is almost identical.

An extended plan for the project: To further facilitate the initiatives of Finnish government on Emergency guidelines, I have developed a chatbot App hosted on Huggingface Space. Hugging face hosts different versions of AI models, which can be trained or finetuned based on a specific need and integrate it into a chatbot app. The prototype of the chatbot app can be found in this [link](#).

To sum up, it was amazing to see and explore different features and working mechanisms of AI models like Llama. It was exciting to train Llama on a specific topic to deliver a fine-tuned response. The project was truly educational and beneficial.