Import the InferenceClient from Hugging Face Hub

+ Code + Text

```
from huggingface_hub import InferenceClient
```

Set The Hugging Face API Token

```
hf_token = "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"
```

Create an Inference Client Instance

```
client = InferenceClient(
    model="meta-llama/Meta-Llama-3-8B-Instruct",
    token=hf_token
)
```

Prepare the Chat Messages

```
messages = [
    {"role": "user", "content": "Explain how rainbows are formed."}
]

```

Stream the Model’s Response

```
output_text = ""
for chunk in client.chat_completion(messages, max_tokens=100, stream=True):
    if chunk.choices and chunk.choices[0].delta.get("content"):
        output_text += chunk.choices[0].delta["content"]
```

Print the Final Response

```
print("=== Hugging Face API response ===\n")
print(output_text)
```

```
=== Hugging Face API response ===

A rainbow is a spectacular display of colorful light that appears in the sky after a rain shower or when sunlight passes through mist or

**The Process:**

1. **Sunlight**: The first step in forming a rainbow is the presence of direct sunlight. The sun's rays must shine through the air at an
2
```