GROQ INFERENCING

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CODE:

```
!pip install -q groq

import os
from getpass import getpass
from groq import Groq

# Securely enter API key
os.environ["GROQ_API_KEY"] =
getpass("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")

# Create client
client = Groq()

# Models to test
models = [
    "llama-3.1-8b-instant",
    "moonshotai/kimi-k2-instruct-0905"
]

prompt = "Explain Generative AI in one short paragraph."

for model in models:
    print("\n==============================")
    print("Model:", model)
    print("==============================")

    response = client.chat.completions.create(
        model=model,
        messages=[{"role": "user", "content": prompt}],
        temperature=0.7,
        max_tokens=200,
    )

    print(response.choices[0].message.content)
```

OUTPUT:

```
ENTER YOUR API KEY··········

==============================
Model: llama-3.1-8b-instant
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Generative AI refers to a type of artificial intelligence that uses
algorithms to generate new, original content, such as images, videos,
music, or text, based on a given input or pattern. These models learn
from existing data and can create novel outputs that resemble the style
and quality of the original material. Examples include generative
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adversarial networks (GANs) and transformers, which are used in
applications like art generation, language translation, and chatbots.

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Model: moonshotai/kimi-k2-instruct-0905
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Generative AI is a type of artificial intelligence that learns patterns
from existing data and then creates new, similar content—like text,
images, music, or code—on demand.
```