|  |  |
| --- | --- |
| Commercial Name | Exact config |
| OpenAI’s o1 | o1-2024-12-17 |
| Anthropic’s Claude 3.7 Sonnet | anthropic.claude-3-7-sonnet-20250219-v1:0 |
| Google’s Gemini 2 Flash Thinking (Exp) | gemini-2.0-flash-thinking-exp |

from langchain\_openai import ChatOpenAI

import base64

import os

model\_name = CONFIG

api\_key = API KEY

def encode\_image(image\_path):

    with open(image\_path, "rb") as image\_file:

        return base64.b64encode(image\_file.read()).decode("utf-8")

base64\_image = encode\_image("plot.png")

image\_ext = os.path.splitext("plot.png")[1][1:]

llm = ChatOpenAI(

    model = model\_name, api\_key = api\_key

)

messages = [

    {

        "role": "system",

        "content": CONTEXT,

    },

    {

        "role": "user",

        "content": [

            {

                "type": "text",

                "text": PROMPT,

            },

            {

                "type": "image\_url",

                "image\_url": {

                    "url": f"data:image/{image\_ext};base64,{base64\_image}",

                    "detail": "auto",

                },

            },

        ],

    },

]

ai\_message = llm.invoke(messages)

print(ai\_message.content)