

```
from pydantic import BaseModel

from typing import List, Dict, Any

import requests

import base64

from PIL import Image

from io import BytesIO
```

```
# Single BaseModel for the entire API request structure
```

```
class APIRequest(BaseModel):
```

```
    model: str
```

```
    messages: List[Dict[str, Any]]
```

```
    temperature: float
```

```
    top_p: float
```

```
    max_tokens: int
```

```
# Convert image to Base64
```

```
def image_to_base64(image_path: str) -> str:
```

```
    with Image.open(image_path) as image:
```

```
        buffered = BytesIO()
```

```
        image.save(buffered, format="JPEG")
```

```
        img_str = base64.b64encode(buffered.getvalue()).decode("utf-8")
```

```
    return img_str
```

```
# Replace 'image.jpg' with the path to your image
```

```
base64_image = image_to_base64("test.jpg")
```

```
# Construct the request data
```

```
request_data = APIRequest(
```

```
    model="cogvlm-chat-17b",
```

```
    messages=[
```

```
        {
```

```
            "role": "user",
```

```
            "content": [
```

```
                {"type": "text", "text": "Describe what is in the image"},
```

```
                {
```

```
                    "type": "image_url",
```

```
                    "image_url": {"url": f"data:image/jpeg;base64,{base64_image}"},
```

```
                },
```

```
            ],
```

```
        }  
    ],
```

```
    temperature=0.8,
```

```
    top_p=0.9,
```

```
    max_tokens=1024,
```

```
    )
```

```
# Specify the URL of your FastAPI application
```

```
url = "https://api.swarms.world/v1/chat/completions"
```

```
# Send the request
```

```
response = requests.post(url, json=request_data.dict())
```

```
# Print the response from the server
```

```
print(response.text)
```