

```
import os

from dotenv import load_dotenv

from swarms import Agent


from swarm_models import GPT4VisionAPI


# Load the environment variables

load_dotenv()


# Initialize the language model

llm = GPT4VisionAPI(

    openai_api_key=os.environ.get("OPENAI_API_KEY"),

    max_tokens=500,

)


# Initialize the task

task = (

    "Analyze this image of an assembly line and identify any issues such as"

    " misaligned parts, defects, or deviations from the standard assembly"

    " process. IF there is anything unsafe in the image, explain why it is"

    " unsafe and how it could be improved."

)

img = "assembly_line.jpg"


## Initialize the workflow
```

```
agent = Agent(  
    agent_name="Multi-ModalAgent",  
    llm=llm,  
    max_loops="auto",  
    autosave=True,  
    dashboard=True,  
    multi_modal=True,  
)
```

```
# Run the workflow on a task
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```
agent.run(task, img)
```