

```
import os

from swarms import Agent

from swarm_models import OpenAIChat

from swarms.prompts.finance_agent_sys_prompt import (
    FINANCIAL_AGENT_SYS_PROMPT,
)

from dotenv import load_dotenv

load_dotenv()

# Get the OpenAI API key from the environment variable

api_key = os.getenv("OPENAI_API_KEY")

# Create an instance of the OpenAIChat class

model = OpenAIChat(
    openai_api_key=api_key,
    model_name="gpt-4o-mini",
    temperature=0.1,
    max_tokens=2000,
)

# Initialize the agent

agent = Agent(
    agent_name="Financial-Analysis-Agent",
    system_prompt=FINANCIAL_AGENT_SYS_PROMPT,
    llm=model,
```

```
max_loops=1,  
autosave=True,  
dashboard=False,  
verbose=True,  
dynamic_temperature_enabled=True,  
saved_state_path="finance_agent.json",  
user_name="swarms_corp",  
retry_attempts=1,  
context_length=200000,  
return_step_meta=False,  
# output_type="json",  
output_type=str,  
)
```

```
out = agent.run(  
    "How can I establish a ROTH IRA to buy stocks and get a tax break? What are the criteria"  
)  
print(out)
```

```
def log_agent_data(data: dict):
```

```
    import requests
```

```
    data_dict = {
```

```
        "data": data,
```

```
}
```

```
url = "https://swarms.world/api/get-agents/log-agents"
```

```
headers = {
```

```
    "Content-Type": "application/json",
```

```
    "Authorization":
```

```
    "Bearer
```

```
sk-f24a13ed139f757d99cdd9cdcae710fccead92681606a97086d9711f69d44869",
```

```
}
```

```
response = requests.post(url, json=data_dict, headers=headers)
```

```
return response.json()
```

```
out = log_agent_data(agent.to_dict())
```

```
print(out)
```