🏠   Modules   Agents   Tools   Tools as OpenAI Functions

Tools as OpenAI Functions

This notebook goes over how to use LangChain tools as OpenAI functions.

```python
from langchain.chat_models import ChatOpenAI
from langchain.schema import HumanMessage
```

API Reference:

- ChatOpenAI from `langchain.chat_models`

- HumanMessage from `langchain.schema`

```python
model = ChatOpenAI(model="gpt-3.5-turbo-0613")
```

```python
from langchain.tools import MoveFileTool,
format_tool_to_openai_function
```

API Reference:

- MoveFileTool from `langchain.tools`

- format_tool_to_openai_function from `langchain.tools`

```python
tools = [MoveFileTool()]
functions = [format_tool_to_openai_function(t) for t in tools]
```

```python
message = model.predict_messages(
    [HumanMessage(content="move file foo to bar")], functions=functions
)
```

```python
message
```

```
    AIMessage(content='', additional_kwargs={'function_call': {'name':
'move_file', 'arguments': '{\n  "source_path": "foo",\n
```

```
    "destination_path": "bar"\n}'}}, example=False)
```

```
message.additional_kwargs["function_call"]
```

```
    {'name': 'move_file',
     'arguments': '{\n  "source_path": "foo",\n  "destination_path":
"bar"\n}'}
```