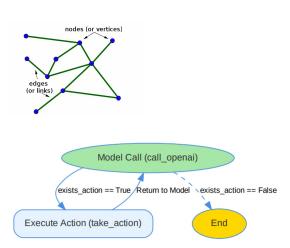
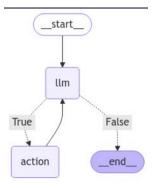
AGENT GRAPH EXAMPLE





In this agent, we simply have this logic:

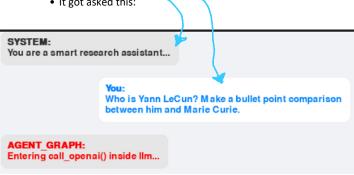
- The agent starts in IIm (executes the model given the prompt) call_openai()
- Then it asks the if there's any action the IIm wants to call
- In case there's an action(s), goes to the action and it executes it (take_action())
- ➤ If not, the flow goes to **END**

```
__init__(self, model, tools, system=""):
self.system = system
 graph = StateGraph(AgentState)
#we start creating the graph representing the agent
  graph.add_node("llm", self.call_openai)
  graph.add node("action", self.take action)
 graph.add_conditional_edges(
   "llm",
   self.exists_action,
   #if exists a called tool, = go to action NODE, if not, END
   [True: "action", False: END]
  self.graph = graph.compile()
self.tools = {t.name: t for t in tools}
self.model = model.bind_tools(tools)
 exists_action(self, state: AgentState):
result = state['messages'][-1]
return len(result.tool_calls) > 0
f call_openai(self, state: AgentState):
    messages = state['messages']
    if self.system:
        messages = [systemMessage(content=self.system)] + messages
    message self.model_invoke(messages)
    return {'messages': [message]}
else:
    result = self.tools[t['name']].invoke(t['args'])
results.append(ToolMessage(tool_call_id=t['id'], name=t['name'], content=str(result)))
t('Back to the model!')
rn {'messages': results}
```

Example Basic Agent Visualized

This agent simply has one avaiable tool for searching on the web

• It got asked this:





ASSISTANT: ### Funny Haiku: Yann and Marie bright, Al to radioactivity, Science makes them right.