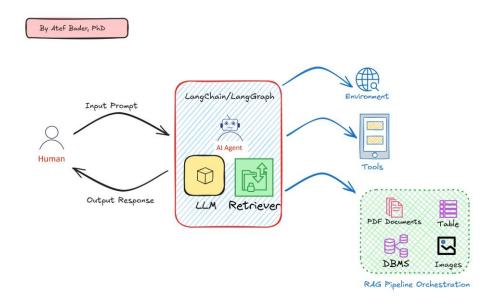
# Lab 3

### LangChain/LangGraph

## Coding Workbench



### Instructions:

- 1. Complete the tasks and steps listed under the Requirements section below.
- 2. Participate in the Lab Discussions on Canvas

#### Requirements:

- 1. Activate your python 3.10 virtual environment that you created in Lab\_1 by executing the following commands from the terminal/window:
  - venv\Scripts\activate
- 2. Set up your environment variables for OpenAl Key and Rasa-Pro License
  - set OPENAI API KEY=ADD YOUR OPENAI API KEY HERE
  - set LANGCHAIN\_API\_KEY=ADD\_YOUR\_ LANGCHAIN\_API\_KEY\_HERE
  - set LANGCHAIN\_TRACING\_V2=true
  - set TAVILY\_API\_KEY= ADD\_YOUR\_TAVILY\_API\_KEY\_HERE
- 3. Download and run the provided IPYNB scripts: Lab\_3.1, Lab\_3.2, and Lab\_3.3.
- 4. Modify and runthe provided IPYNB script, Lab\_3.1, to add the following query in the script:
  - "How many NON-U.S. NIKE Brand factory stores are there?"
- 5. Modify and run the provided IPYNB script, Lab\_3.2, to add two more questions in the script:
  - o {"question": "What is Chain of Thought?"}
  - o {"question": "What is Tree of Thoughts?"}
- 6. Modify and run the provided IPYNB script, Lab\_3.3, to add the following text to the input message in the script:

```
input_message = (
  "What is the difference between Chain of Thought and Tree of Thoughts ?\n\n"
  "Once you get the answer, which one is preferred to review and analyze financial reports "
)
```