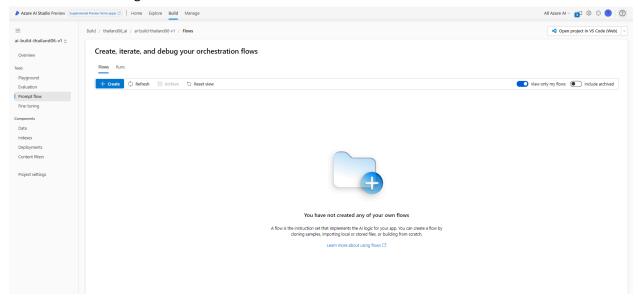
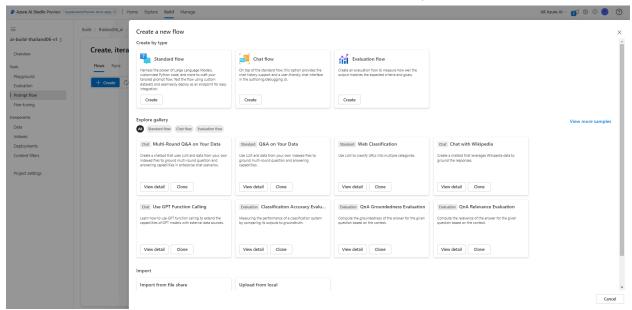
Prompt flow (Multi-Turn RAG)

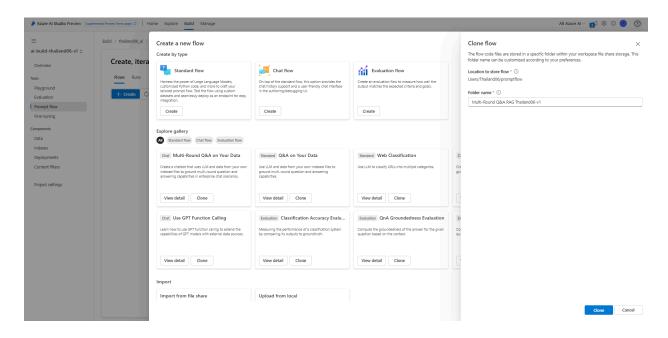
 Go to prompt flow and click "create" to create a new prompt flow. You will find specific types of flows to be made and some of the "Example Flows," which you can clone and explore for further understanding.



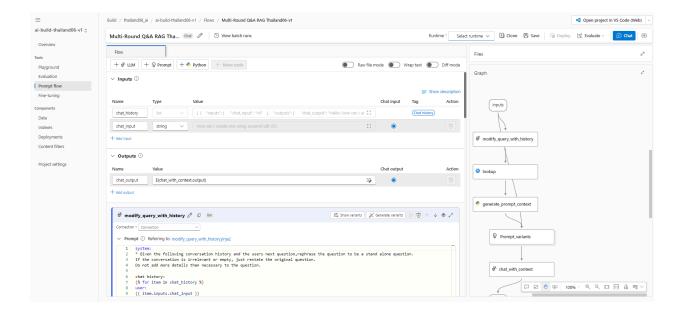
2. We will select "Multi-Round Q&A on Your Data" for this example. Click on "Clone"



3. Specify a folder name for your project. You can use the following naming convention "Multi Round Q&A RAG" + login ID + version number. E.g. "Multi Round Q&A RAG Thailand06-v1"



4. In the prompt flow, you can see the "graph," which gives you a bird' s-eye view of the whole flow, and the "Files," which lets you download the prompt flow files to share your work. Click on the dropdown option next to Runtime & select Start.



We can now start setting up the components under the **Flow** tab. Note: You can add/remove components from the flow as per the requirements.

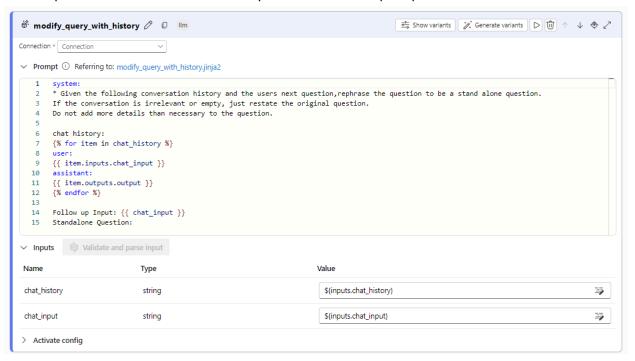
5. Under the **Inputs** section, you can add more than one input and specify different data types for each type. In this example, **chat_input** is an input name with **string** as the data type.



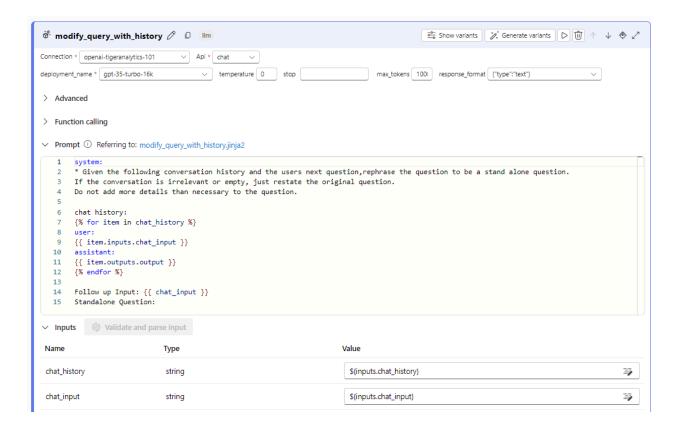
6. Under the Outputs section, you can specify the number of outputs and even assign values from other components of the flow. In this example, chat_output is the output name and \${chat_with_context.output} is the value. Here chat_with_context is another component of the flow and output is a variable of that component.



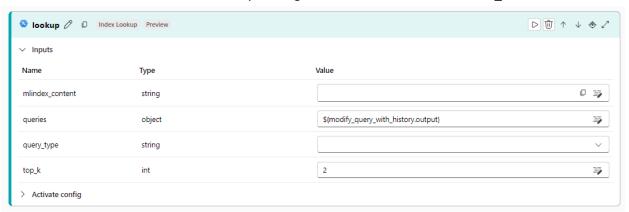
7. Under **modify_query_with_history** we would already have the prompts to create standalone questions from conversation history. We can tweak the prompts as needed.



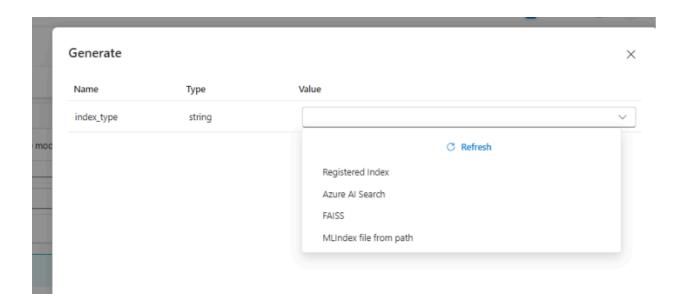
Set up the OpenAI connection in modify_query_with_history. Click on the drop-down next to Connection and select openai-tigeranalytics-<number>. In deployment_name select gpt-35-turbo-16k. In response_format select {"type":" text"}.



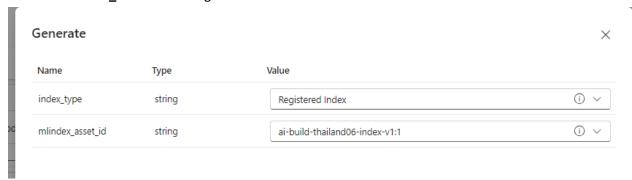
8. The **lookup** tab is for the retrieval system which uses Azure AI search service. Set up the connection to the created index by clicking on the **Value** box in the **mlindex_content.**



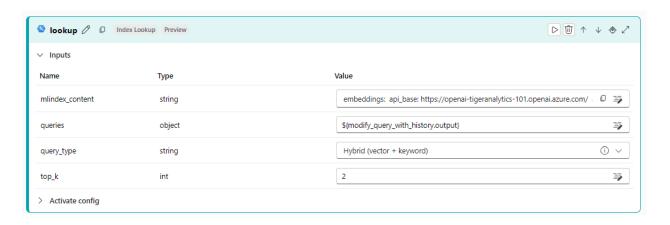
Under index type, select Registered Index, the index already created in the playground setup.



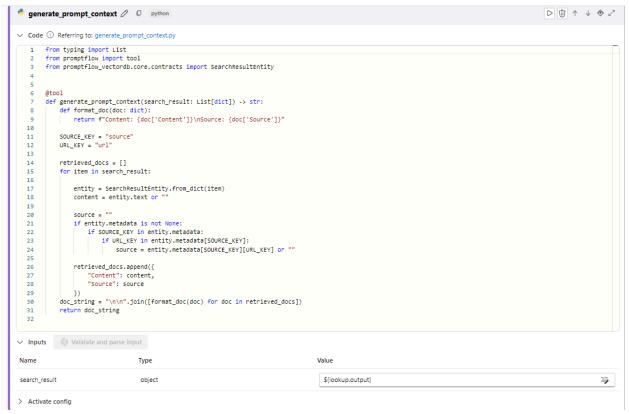
Select the index name under **mlindex_asset_id** that is already created. The create index name would be "ai-build-" + user_id + version. E.g. ai-build-thailad06-index-v1



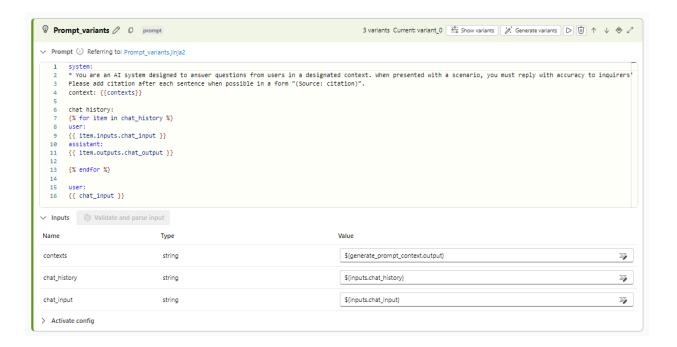
Select **Hybrid (vector + keyword)** under **query_type**. You can select other search types as well based on the use case. Specify **top_k** for the number of chunks you want to fetch as part of the search.



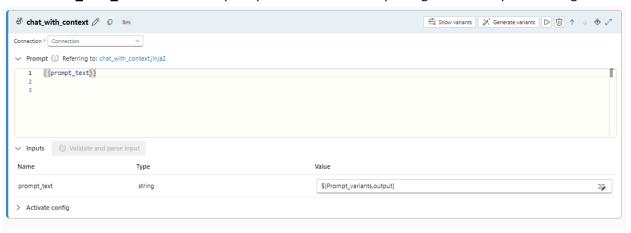
9. The **generate_prompt_context** tab is Python code that combines the context and source retrieved by Azure Al search.



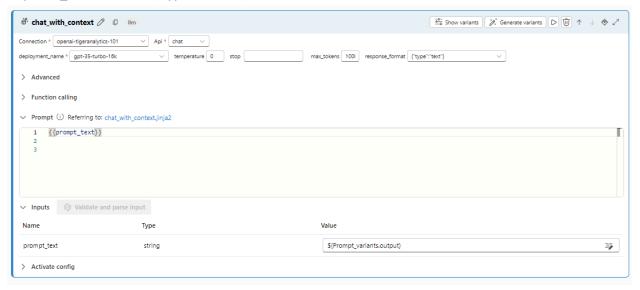
10. The **Prompt_variants** section combines the chat history, context, and system prompts to create a common prompt template to be fed to LLM for generating responses. We can tweak the template and perform prompt engineering as needed.



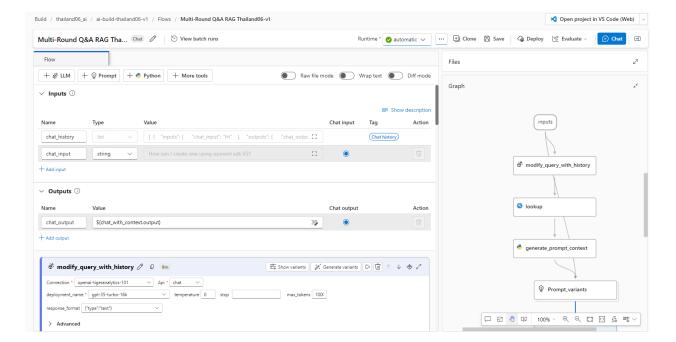
11. Chat_with_context takes the prompt from the above step and generates responses using LLM.



Set up the OpenAI connection in **chat_with_context**. Click on the drop-down next to **Connection** and select **openai-tigeranalytics-<number>**. In **deployment_name** select **gpt-35-turbo-16k**. In **response_format** select **{"type":" text"}**.



12. The prompt flow is ready to use and you can view the process flow from the **Graph** tab on the right section.



You can click the **Chat** option to open the chat window and interact with the application.

