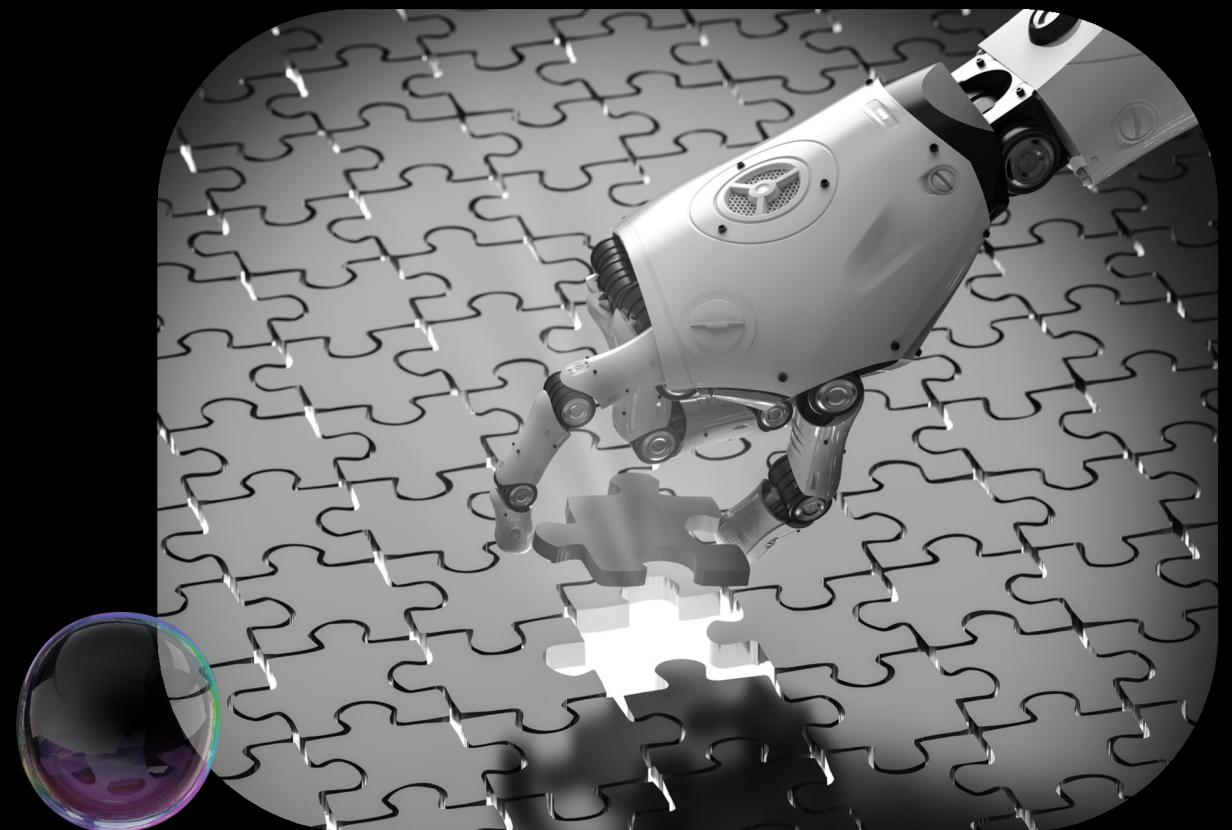


# Azure Mastery: Building Smarter Bots

Prompt Flow



Created by  
Katerina Chernevskaya





# Prompt Flow

## Definition

Prompt Flow in Azure AI Studio is a framework that guides the generation of AI models' responses. It structures the interaction by defining a sequence of steps to achieve more refined and contextually appropriate outputs.



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# Prompt Flow

## Types

- **Standard Flow:** Suited for broad application development, leveraging a wide range of tools designed for building applications with large language models.
- **Chat Flow:** Optimized for developing conversational applications, the Chat Flow builds on the Standard Flow by focusing on enhancing chat interactions.
- **Evaluation Flow:** Tailored for assessing the effectiveness of your applications.



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# Tool

## Definition

In Prompt Flow, **Tools** are building blocks. It is any function or feature used to create, manage, or enhance the flow of prompts to tailor the AI's responses to specific needs or contexts.

Tools in Prompt Flow can range from simple text inputs to complex functions that integrate with external data, helping to build dynamic and responsive AI applications.



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# Tool

Most popular

- **LLM Tool:** Utilizes large language models (LLM) from Azure OpenAI Service for tasks like text completion or chat.
- **Prompt Tool:** Allows crafting of prompts using Jinja, a templating language to structure AI interactions.
- **Python Tool:** Executes Python code directly within the flow to extend functionality.
- **Index Lookup Tool:** Performs searches using vector-based queries to find relevant results from text inputs.



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# Input and output in Prompt Flow

## Definition

The **Input** in Prompt Flow typically involves user queries or data that you want the AI to process. This could be a question, a chat history, or any text that needs an AI-generated response.

The **Output** is the AI's response, crafted according to the flow's logic. It's tailored to be immediately usable, whether passed to an orchestrator for further action or displayed directly in a user interface. This ensures seamless integration and interaction in real-world applications.



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# Prompt Flow

## Benefits

- **Orchestration:** Easily orchestrate complex workflows using large language models, custom prompts, and Python tools, all within a visually intuitive graph.
- **Team Collaboration:** Enhance flow development through features that allow for easy sharing, debugging, and iterating within your team.
- **Optimization:** Experiment with different prompt versions to see which performs best, enabling effective optimization of responses.



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# Prompt Flow

## Lifecycle

- **Initialization:** Identify your business goal, gather initial data, and learn to construct basic prompts. Build a flow to enhance these elements.
- **Experimentation:** Experiment with your flow using small datasets, assess prompt effectiveness, and iterate to refine.
- **Evaluation and Refinement:** Run the flow on a larger dataset, analyze performance, and make necessary adjustments.
- **Production:** Launch the optimized flow, monitor its effectiveness in real settings, and continuously improve based on feedback.



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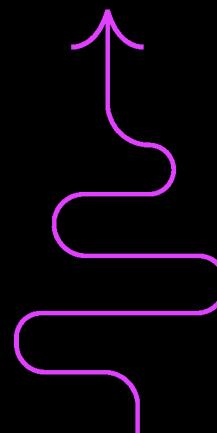
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Key Terms

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