



Artificial Intelligence Copilot

29/05/2024



Agenda

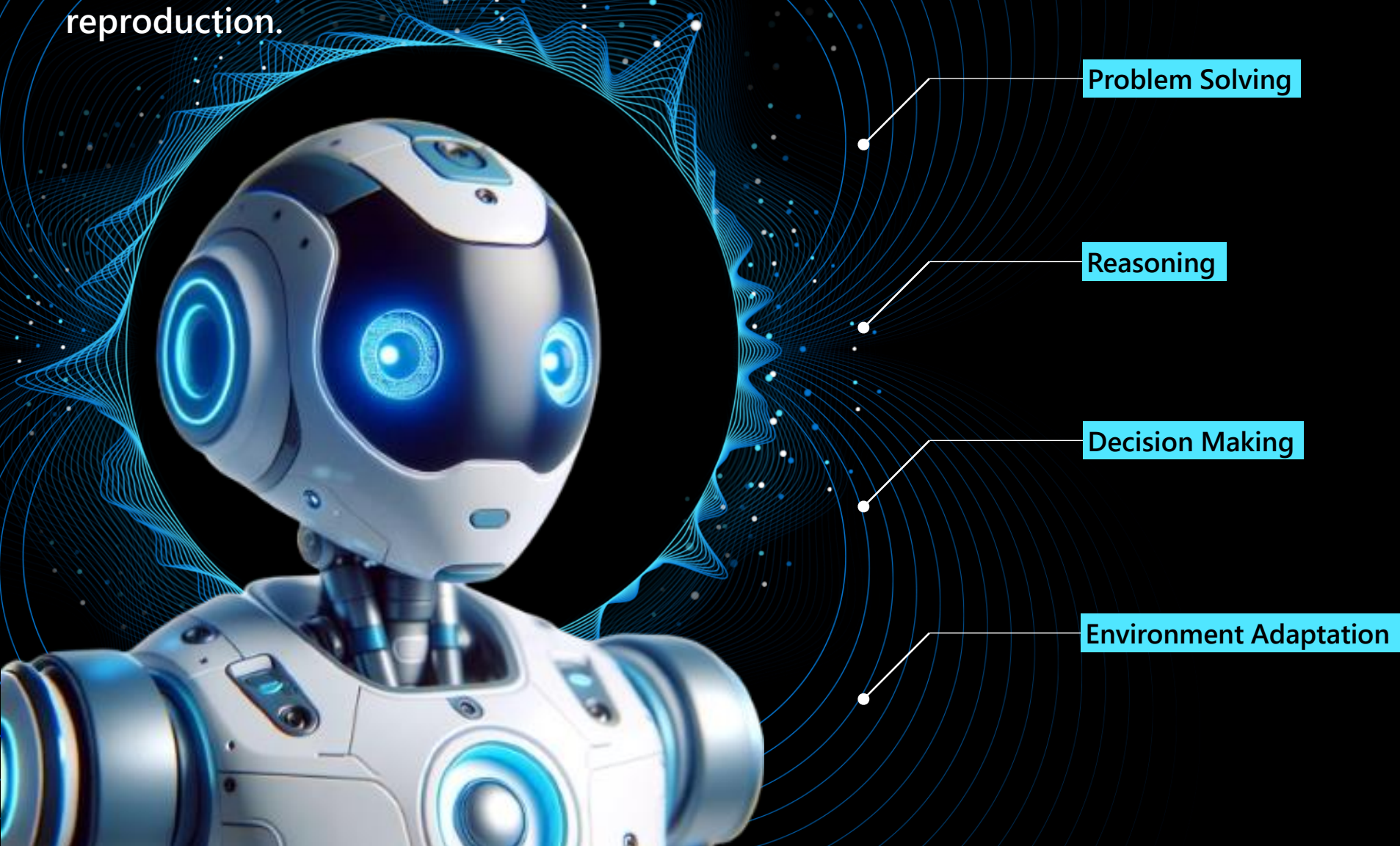


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What is Intelligence?

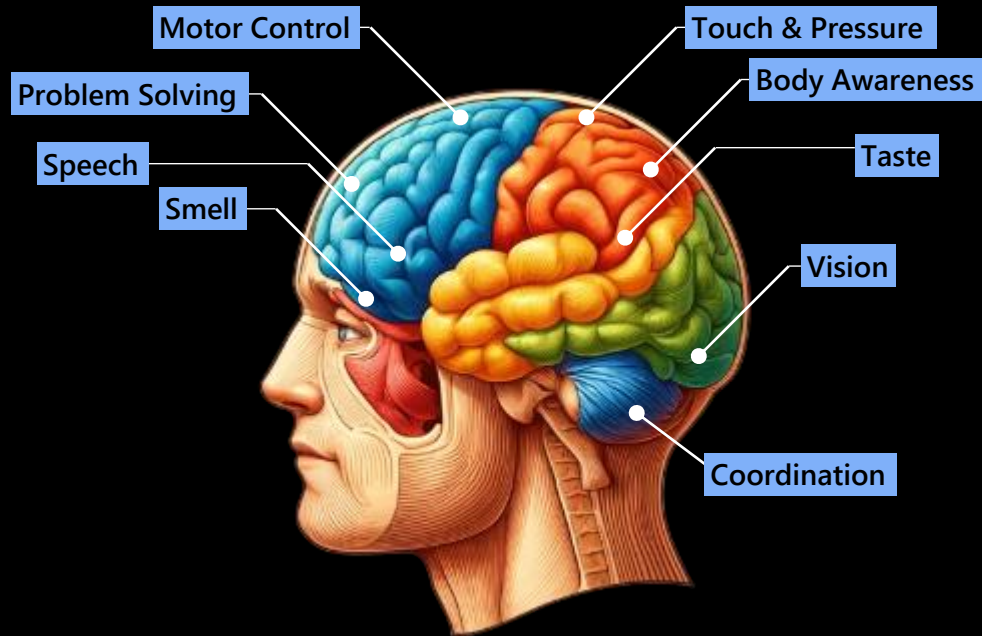
Intelligence can be defined as the ability to solve complex problems or make decisions with outcomes benefiting the actor and has evolved in lifeforms to adapt to diverse environments for their survival and reproduction.



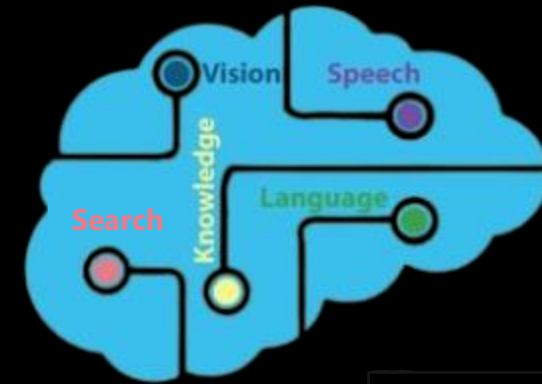
Human Brain



The human brain's remarkable cognitive abilities inspired the development of Azure Cognitive Services, which aim to imitate aspects of human perception, reasoning, and decision-making through advanced AI and machine learning technologies.



The human brain orchestrates a vast array of functions, from processing complex emotions and retaining memories to managing sensory input and executing motor skills, making it the central organ of human cognition and physical activity.



Azure Services

Azure Cognitive Services encompass a suite of artificial intelligence services and cognitive APIs that empower developers to build intelligent applications capable of:

- Seeing – AI Vision
- Hearing – AI Speech
- Speaking – AI Speech & Language
- Understanding – AI Knowledge
- Reasoning – AI Search

Capture Information



Machines designed to collect vast amounts of data from their surroundings using sensors and digital inputs.

Register Knowledge



These systems store and categorize the acquired information, creating an accessible repository of knowledge.

Understand Topics



Advanced algorithms analyze the stored data to detect patterns and comprehend complex topics within the information.

Be smart to Learn and predict

Leveraging machine learning, these machines continually evolve their understanding and predict outcomes based on new data.



React based on Audience

They adjust their responses dynamically according to the audience's reactions or changes in the environment.



Take Action

Empowered with decision-making capabilities, these machines autonomously execute actions based on their analyses and predictions.



Copilot – Creation of a Bot



Copilot Name



Copilot Icon



Copilot Description

Bot Aspects

- Knowledge
- Topics
- Language
- Actions
- Channels
- Monitoring

AI – Enabled Worker



AI Models


- Safety
- Ethics
- Compliance
- Security

Copilot Bots Benefits


- Streamlines workflows and reduces manual effort
- Reduces human error in repetitive tasks
- Tailors' responses to individual user preferences.
- Increases user interaction and satisfaction
- Offers round-the-clock assistance and support
- Easily scales to meet growing customer demands.

Copilot Knowledge Sources


Dataverse

 Customize and deploy custom data tables


Microsoft Fabric

 Accelerate data analysis with AI capabilities


Connectors

 Thousands of connectors available to integrate with any data source


Public Websites

 Add public websites for real-time answers

Files

 Upload documents from your local computer

SharePoint & OneDrive

 Securely integrate and manage real time data



Copilot Topics

1. Manual Topics

Manually create trigger phrases, add conversational nodes and create the whole topic path.



2. Input a Prompt

The user provides the copilot with a description or sample of the desired content



3. Generate Content

The Copilot uses its knowledgebase to generate content from the sources provided



Goal

What do you want from Copilot?

"I want a list of 3-5 bullet points to prepare me..."

Context

Why do you need it and who is involved?

"... for an upcoming meeting with {client} focusing on their current state and what they are looking to achieve"

Expectations

How should Copilot respond to your request


"Respond with a tone that is friendly but authoritative..."

Source

What information do you want Copilot to use

"... and focus on email and Teams chats with {people} over the last two weeks."

AI Connectors – Use Others Intelligence

 Explore the transformative potential of AI Connectors and how they leverage external intelligence to enhance the capabilities and functionalities of your bots.



Azure Cognitive Service for Language

Enhance your Copilot Studio's capabilities by integrating an existing conversational language understanding (CLU) model from Azure Cognitive Services, offering an alternative to the platform's native language processing tools



AI Models from Azure OpenAI

Utilize AI models from Azure Open AI to integrate your own data into AI solutions, enabling the models to serve as a dynamic data source for generating accurate answers to user inquiries



Copilot SDK

The Copilot SDK enables you to enhance your copilot with advanced pro-code capabilities and facilitates a streamlined transition to Microsoft Copilot Studio through specialized skills.



Revolutionize content creation by automating and enhancing the generation of accurate, contextually relevant material across various applications using Generative AI in Copilot Studio.

Classic

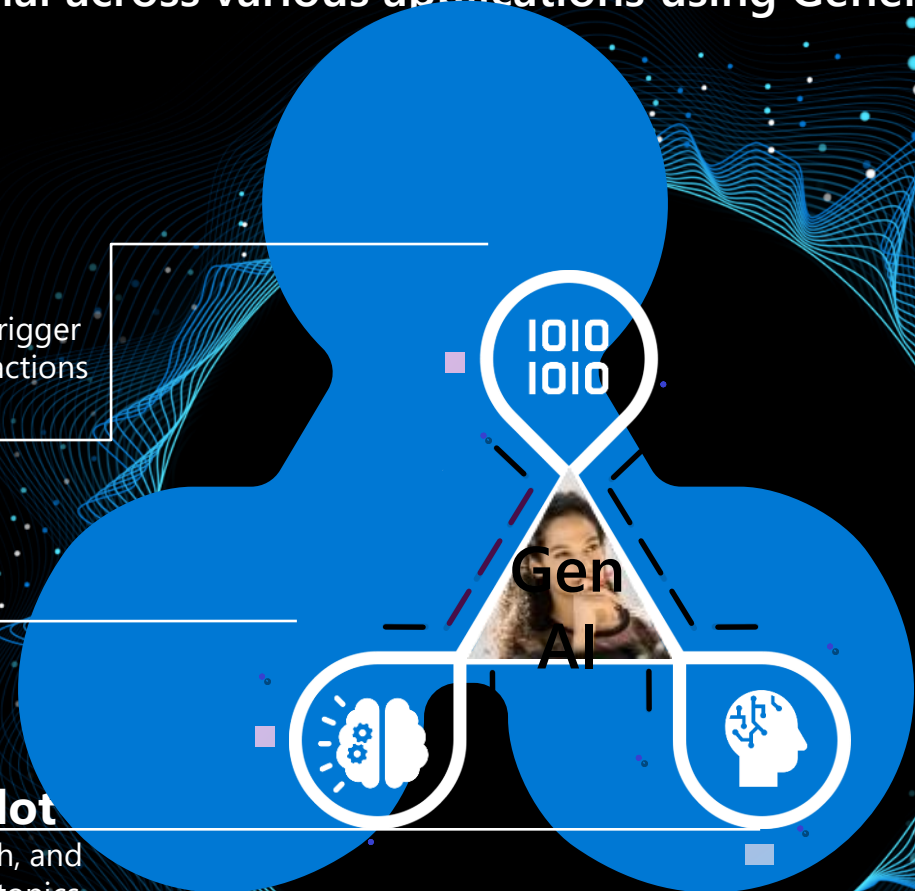
Build predefined topics with trigger phrases and configuration of actions linked to these topics.

Generative

Employs generative AI to dynamically determine the best combination of actions and topics for responding to user interactions

Intelligent Authoring with Copilot

Allows users to input topics they need assistance with, and Copilot will autonomously develop and refine these topics





Copilot Studio provides you with several ways that could keep the bots you create secure

Authentication

Authentication allows users to sign in, giving your copilot access to a restricted resource or information. Users can sign in with Microsoft Entra ID, or with any OAuth2 identity provider such as Google or Facebook.

Authentication options available:

- No authentication
- Authenticate with Microsoft
- Authenticate manually

Web Channel Security

Refers to a suite of enhanced security measures designed to protect communications and data transmitted over web channels. This feature ensures that all interactions through web-based interfaces are secure, safeguarding against unauthorized access, data breaches, and other cyber threats.



Sharing

You can share your copilots with others to grant them special permissions. There are two different sharing methods:

- Grant security groups, or your whole organization, permission to chat with the copilot.
- Invite users to collaborate on your copilot project. Collaborators always have permission to chat with the copilot.

Allowlist

Designed to control and manage which other copilots can interact with your copilot by invoking it as a skill. This allows you to restrict access and ensure that only trusted and pre-approved copilots can call upon your copilot for tasks or information.

Copilot Bot Skills



Copilot Studio skills enable you to enhance your copilot by integrating Bot Framework skills that have been developed and deployed within your organization.



You can convert and register existing bots as skills in a Copilot Studio copilot, facilitating sophisticated interactions such as triggering skill actions directly within conversations.

Copilot Bot Actions



Extend the capabilities of your copilot by adding one or more actions that can be used by your copilot to respond to users automatically, using generative actions, or you can call them explicitly from within a topic.

Action Types



Prebuilt connector action



Custom connector action



Bot Framework skill



Power Automate cloud flow



AI Builder prompts

Action Nodes

Delete a Row

Request Status

Run Script

HTTP Flows

Get a Row

Get Forecast for Today

Search D365 Knowledge

List Rows in Table

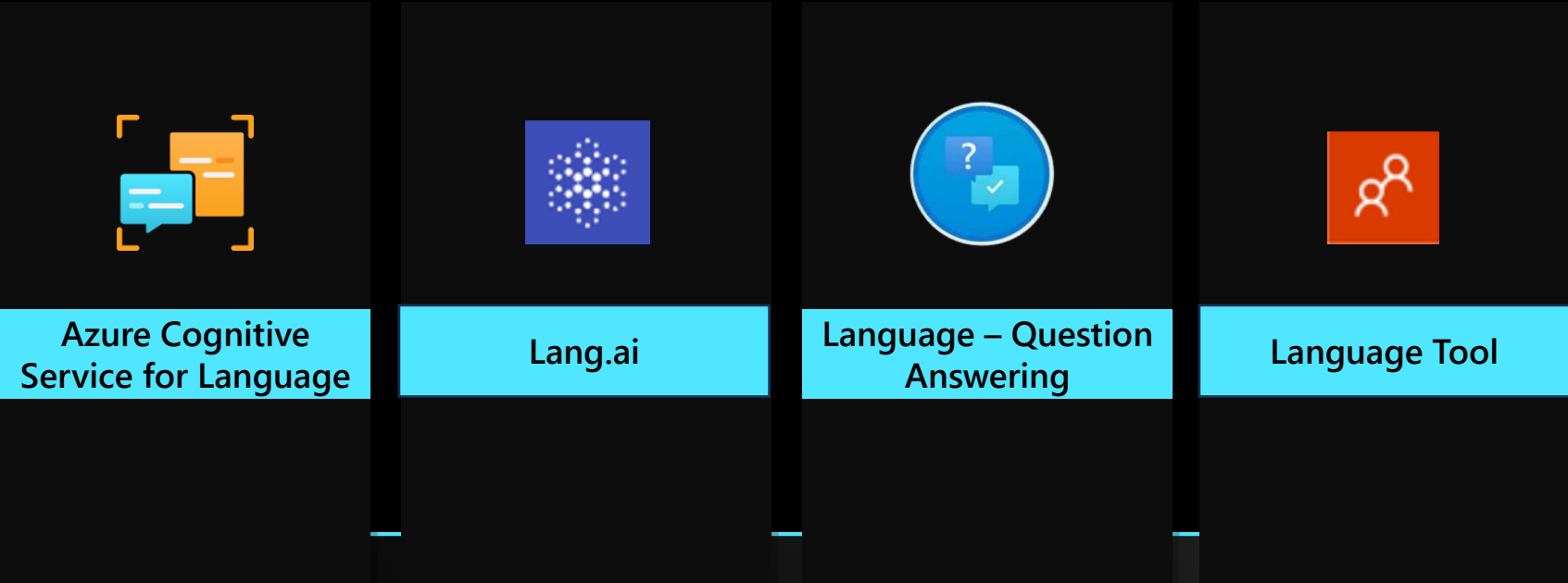
Update a Row

D365 Field Service

Get Worksheets

Send Email Notification

Language Understanding



Integrate your conversational Language Understanding (CLU) model with a Copilot Studio bot

Azure Cognitive Service for Language

Machine-learning Intelligence

Copilot Bot Analytics



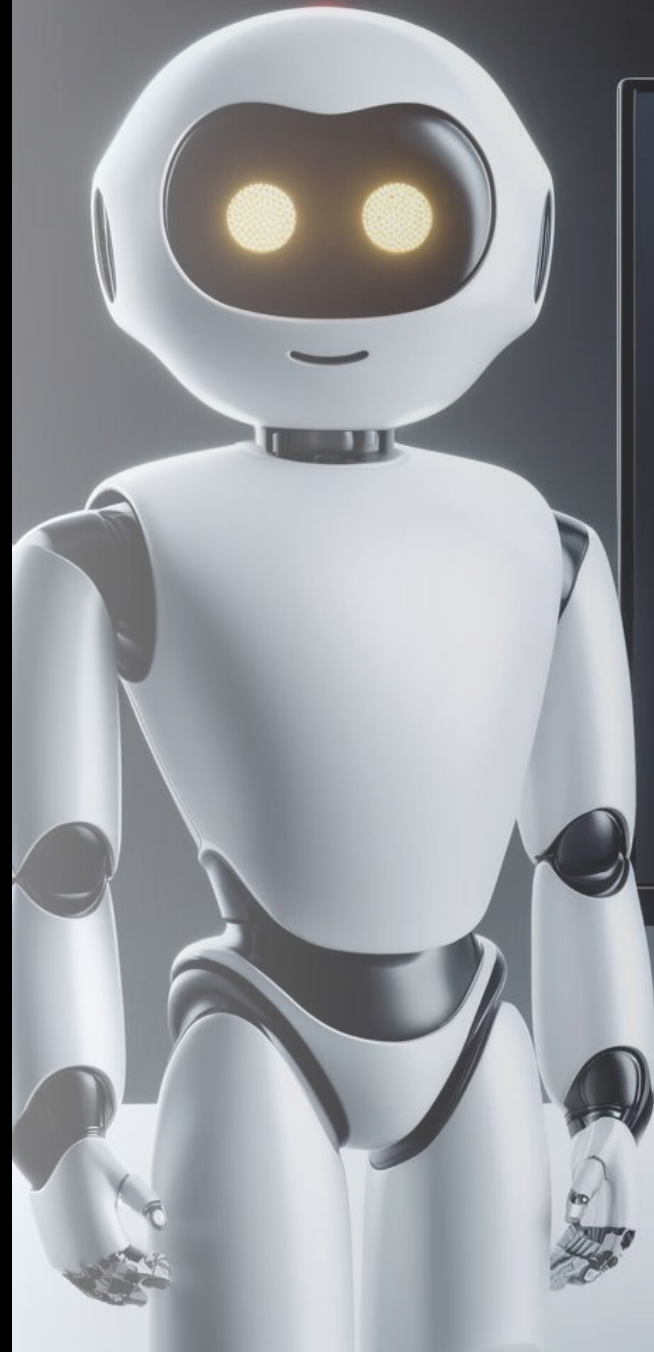
Monitor

Watch all what the BOT did



Correct

Discover his mistakes and Behaviour



Copilot Bot Channels



Configure copilot channels to meet your customers where they are, on any channel they use



Microsoft Teams



Custom Website



Slack



Twilio



Demo Website



Direct Line Speech



Email



Mobile App



Skype