

# What are AI-Assistants and what are they for?



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We are going to start working with assistants. To do so, we must first understand what they are and what they are for.

### Natural language processing

- Voice commands
- Text commands

An Artificial Intelligence Assistant can be defined as software that relies, for example, on natural language processing to understand voice and text commands.

They are capable of performing many of the same tasks as human assistants, such as reading text, taking dictation, searching for information in documents, etc.

## GeneXus Enterprise AI

Allows you to implement AI-Assistants, which can be used by any programming language.

- AI-Assistant that autocompletes a text based on the information entered by the user.
- AI-Assistant that is fed with a set of documents, and then allows the user to make queries about them.
- AI-Assistant that, using natural language, allows you to reach a certain site in an application.

GeneXus Enterprise AI allows implementing and supporting Artificial Intelligence Assistants, which can be used by any programming language.

For example,

- We could define an assistant that autocompletes a text based on the information entered by the user.
- Another example could be an assistant that is fed a set of documents and then allows the user to make queries on them.
- It could also be an assistant that, based on natural language, allows the user to reach a certain place in an application.

And so we could define all the Artificial Intelligence Assistants we need to help us with certain tasks.

## Assistants and RAG Assistants

- Chat with documents
- Chat Assistant
- API Assistant
- Chat with Data Assistant
- Data Analyst Assistant

GeneXus Enterprise AI allows you to create RAG Assistants to chat with documents or search for information stored in documents, that is, in unstructured data.

Retrieval Augmented Generation (RAG) is an approach that combines information retrieval from unstructured data and text generation to improve performance in tasks such as question answering.

But in addition to RAG Assistants, GeneXus Enterprise AI allows you to create other types of assistants, such as:

- Chat Assistant - For interactive conversations
- API Assistant - For chatting with a REST API
- CHAT WITH DATA Assistant - For chatting with a relational database.
- And DATA ANALYST Assistant - For chatting with any dataset that is in CSV format.

## Assistants and RAG Assistants

The screenshot displays the 'RAG Assistants' management interface within the GeneXus Enterprise AI platform. The interface is divided into a left sidebar and a main content area. The sidebar, titled 'GeneXus Enterprise AI', contains two sections: 'PROJECT OPTIONS' and 'ORGANIZATION OPTIONS'. Under 'PROJECT OPTIONS', there are links for Dashboard, Assistants, RAG Assistants (highlighted), Playground, Requests, Api Tokens, and Members. Under 'ORGANIZATION OPTIONS', there are links for Manage Projects, General dashboard, Members, and Api Tokens. The main content area, titled 'RAG Assistants', shows a project dropdown set to 'TrainingProject (Training)'. It features a 'CREATE NEW' button, a search filter for 'Name' (set to 'Contains'), and a 'Status' dropdown set to 'All'. Below this is a table with the following data:

Name	Description	Last indexing status				
Default	Default	Success	UPDATE	DELETE	+ ADD DOCUMENTS	VIEW DOCUMENTS

At the bottom of the table, it indicates 'Page 1 of 1' and includes navigation arrows.

If we enter the platform, at the project level we find the options to work with Assistants and with RAG Assistants. Later on in the next video we will see a step-by-step guide to create an assistant.

Now, what can we do with these assistants? We can try them, test them, and once validated, use them within our applications, either with GeneXus or with any other development platform or programming language.

To try them, we will do it directly from within the platform, as we will see a bit later. And as long as they behave as expected, we will test them via API, through a platform that enables API testing, such as, for example, Postman.

# Postman API Platform

The screenshot displays the Postman API Platform interface. The main workspace shows a REST client request for 'Retrieve a database' using the GET method on the endpoint `https://api.notion.com/v1/databases/id`. The request is configured with the following parameters:

- Query Params:** A table with columns KEY, VALUE, and DESCRIPTION. The first row contains 'Key', 'Value', and 'Description'.
- Path Variables:** A table with columns KEY, VALUE, and DESCRIPTION. The first row contains 'id', `{{DATABASE_ID}}`, and 'Required. Enter database id.'

The response body is shown in JSON format, displaying a database object:

```
1 {
2   "Publisher": {
3     "id": "33E824Pb",
4     "name": "Publisher",
5     "type": "select",
6     "select": {
7       "options": [
8         {
9           "id": "c5ee409a-f307-4176-99ee-6e424fa89afa",
10          "name": "NYT",
11          "color": "default"
12        }
13      ]
14     }
15   }
16 }
```

The right-hand side of the interface shows the 'Documentation' panel for the endpoint, which includes a description: 'Retrieves a database object using the ID specified in the request path.' It also lists 'Authorization' (Bearer Token), 'Request Header' (Notion-Version: 22-02-22), and 'Path Variables' (id: {{DATABASE\_ID}}).

This is a platform that allows us to build and test APIs using a graphical user interface to obtain different types of responses that must be subsequently validated. Once this behavior has been validated, from our application we will access and take its response.

OK. Next, we will see how to create a chat assistant.

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