

How does an Azure API work?

1

The client is any software application that runs on your phone, computer, or other smart devices. When you use the client, it sends a request.



Imagine a visitor who walks to a librarian's desk holding a key. The key is like a pass at the library, allowing the visitor to borrow a book. The visitor wants to make a request such as "I want Book A" or "I want a prediction of the weather".

2

Requests are sent through a network to an endpoint. The Application Programming Interface (API) at that endpoint performs a service to fulfill the request and send back a response.



The endpoint is like the library information desk. An API is the librarian who gets a request "I want Book A", goes to get Book A.



Client

Request



Response

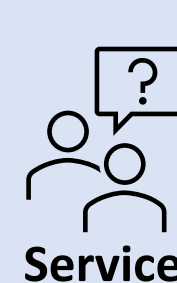


Network

Request

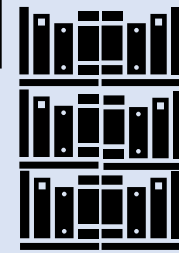


Response



Service

My name is API



3

An AI-informed API can fulfill requests such as predictions and sends back a response. The client receives the response.



Azure AI services such as Cognitive Services consist of a trained machine learning models that behave like a function – accepting one or more input values and generating a predicted output based on probability.



An AI-informed librarian could get a request "I want a prediction of the weather" and goes to get a prediction that the weather will be sunny. The visitor takes that response back to the client.

Learn more about:
[Introduction to Azure AI](#)

[Azure's visual tools for Machine Learning](#)

[Azure's Computer Vision solutions](#)

[Azure's Natural Language Processing solutions](#)