



Python Advanced: APIs

TAKEAWAYS

What is API?

- 1** API stands for Application Programming Interface.
- 2** It is a way through which different software programs talk to each other.
- 3** requests is a popular Python package used to call APIs from Python code.
- 4** FastAPI is a popular web framework in Python that is used to build APIs.
- 5** GET, PUT, POST and DELETE are four frequently used REST API calls

Calling APIs With requests Package

- 1** The requests library in Python simplifies making HTTP requests to APIs, supporting methods like GET, POST, PUT, DELETE, and more.
- 2** Using `requests.get()` or `requests.post()`, you can easily fetch data from or send data to a server, with parameters or data passed as function arguments.
- 3** Handling the response involves checking `response.status_code` to ensure the request was successful and using `response.json()` to parse JSON data returned by the API.
- 4** Exception handling is crucial when making API calls.

Building APIs With FastAPI

- 1** FastAPI is a web framework that lets you build servers that can serve inference requests.
- 2** FastAPI is a modern framework that offers several benefits over other options such as Flask. The benefits are:
 - Speed
 - In-built data validation
 - In-built documentation
 - Faster code development