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How to build a

REST SERVICE THAT CALLS GPT

With basic JavaScripts

Al for Developers, not Data Scientists

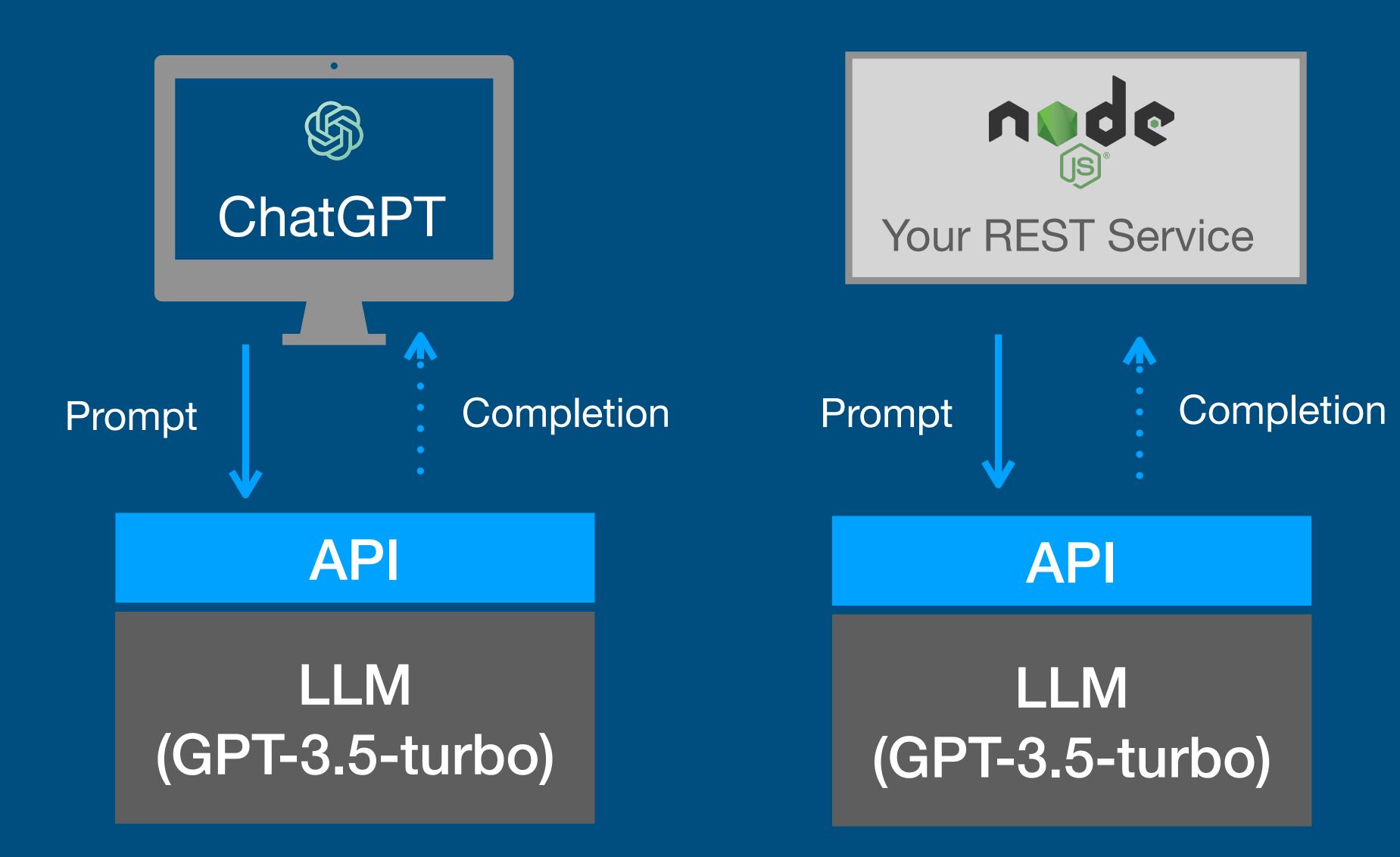






Calling a GPT model

- GPT models are the LLMs (Large Language Models) that power ChatGPT
- There are multiple GPT releases (GPT-3, GPT-4, GPT-5 coming soon?)
- Just like ChatGPT, you'll call a GPT model with your REST service



Install Node

Download and install: https://nodejs.org

Verify the install in your terminal:

~ % node -v

 If the installation succeeded, the version will print

Initialize your project

- Create a new directory for your project.
- Navigate to it in your terminal.
- o Run the following command:

~/node-openai % npm init -y

 Creates a new package.json file, initializing the project.

3 Install Node modules

- Node modules:
 - express: which makes server creation quick and easy
 - langchain: which provides a framework for building Apps with LLMs
 - @langchain/openai: which provides
 OpenAl integrations through their SDK
- In the same terminal, run the following command:
 - ~/node-openai % npm install express \ langchain @langchain/openai
- This command will download the modules into your project.

Create the server file

- Create a file called server.mjs in the project directory.
- Open it in a text editor and add the following lines of code:

```
import express from "express";
const app = express();
import { ChatOpenAI } from "@langchain/openai";
const chatModel = new ChatOpenAI({});
app.get('/', async (req, res) => {
  const response =
    await chatModel.invoke(
      "Can you simply say 'test'?");
  res.send(response.content);
});
app.listen(3000, () => {
  console.log(`Server is running on port 3000`);
});
```

Create an OpenAl account

- Register here: https://platform.openai.com
- Obtain an API key:
 - Simply select 'API keys' in the upper left navigation
 - Select '+ Create new secret key'
 - Copy the key somewhere safe for now

 In the same terminal, run the following command with your key value:

```
~/node-openai % export \
OPENAI_API_KEY=<YOUR_KEY_VALUE>
```

 Optionally add this command to your bash profile: ~/.zshrc Launch your server

Back in the terminal, run the following command:

~/node-openai % node server.mjs

- Open your web browser and visit: http://localhost:3000
- You'll see the response from the OpenAl model: test

Congratulations!

- You're REST service is complete!
- o Quick Tips:
 - Pay attention to your usage in the OpenAl Ul
 - Try adding a query parameter for the prompt
 - O Look at LangChain's ChatPromptTemplate



