**[Background](https://tds.s-anand.net/" \l "/project-2?id=background)**

You are a clever student who has joined IIT Madras’ Online Degree in Data Science. You have just enrolled in the [Tools in Data Science](https://tds.s-anand.net/) course.

To make your life easier, you have decided to build an LLM-based application that can automatically answer any of the graded assignment questions.

Specifically, you are building and deploying an API that accepts any question from one of these 5 graded assignments:

* [Graded Assignment 1](https://exam.sanand.workers.dev/tds-2025-01-ga1)
* [Graded Assignment 2](https://exam.sanand.workers.dev/tds-2025-01-ga2)
* [Graded Assignment 3](https://exam.sanand.workers.dev/tds-2025-01-ga3)
* [Graded Assignment 4](https://exam.sanand.workers.dev/tds-2025-01-ga4)
* [Graded Assignment 5](https://exam.sanand.workers.dev/tds-2025-01-ga5)

… and responds with the answer to enter in the assignment.

[**Create an API**](https://tds.s-anand.net/#/project-2?id=create-an-api)

Your application exposes an API endpoint. Let’s assume that it is at https://your-app.vercel.app/api/.

The endpoint must accept a POST request, e.g. POST https://your-app.vercel.app/api/ with the question as well as optional file attachments as multipart/form-data.

For example, here’s how anyone can make a request:

curl -X POST "https://your-app.vercel.app/api/" \

-H "Content-Type: multipart/form-data" \

-F "question=Download and unzip file abcd.zip which has a single extract.csv file inside. What is the value in the "answer" column of the CSV file?" \

-F "file=@abcd.zip"Copy to clipboardErrorCopied

The response must be a JSON object with a single text (string) field: answer that can be directly entered in the assignment. For example:

{

"answer": "1234567890"

}Copy to clipboardErrorCopied

[**Deploy your application**](https://tds.s-anand.net/#/project-2?id=deploy-your-application)

Deploy your application to a public URL that can be accessed by anyone. You may use any platform, including Vercel.

(If you use ngrok, ensure that it is running continuously until you get your results.)

[**Share your code**](https://tds.s-anand.net/#/project-2?id=share-your-code)

* [Create a new *public* GitHub repository](https://docs.github.com/en/repositories/creating-and-managing-repositories/creating-a-new-repository)
* [Add an MIT LICENSE file](https://docs.github.com/en/communities/setting-up-your-project-for-healthy-contributions/adding-a-license-to-a-repository)
* Commit and push your code