

Topic: Creating Plant Analysis Tools Using Gemini AI and Express.js

Speaker: / Notebook: Django Project: Car Listing



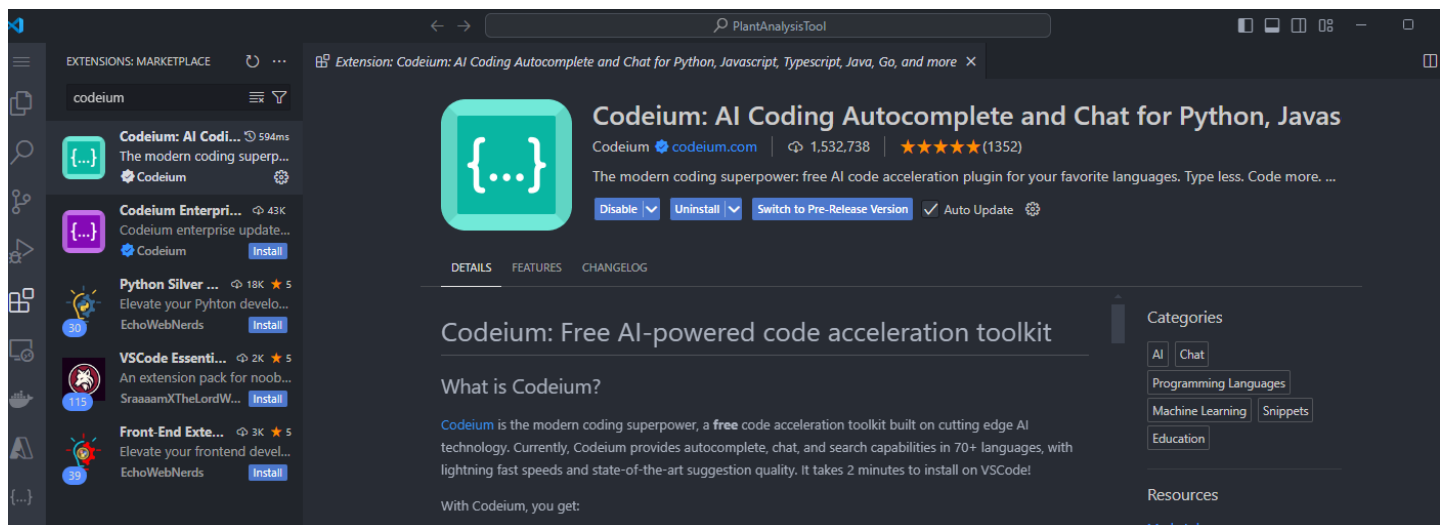
We installed the NODE.JS (Javascript) for this project. You need to [download from here](#).

Node.js for Javascript and Django for Python are 2 different platforms.

Project's Main Resource Page: [YouTube video here](#).

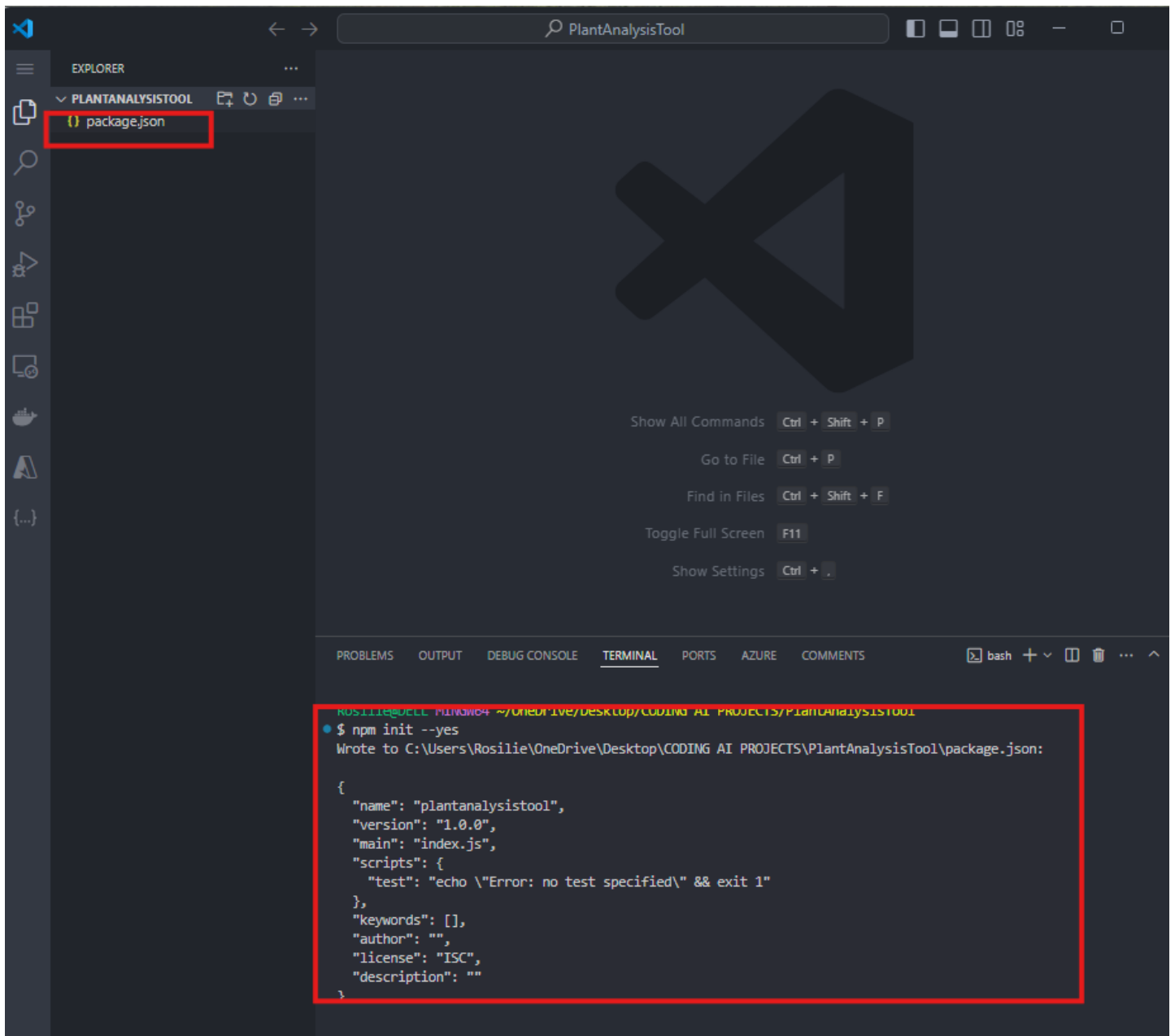
1. Open a new folder, PLANTANALYSISTOOL. Open a new Git bash terminal, and we issue the command, CODE . (code dot) to open the folder in VS Code.

We install the extension CODEIUM AI.



2. We issue the command for Node.js the NPM (which is PIP in Django) to create the PACKAGE.JSON file.

```
$ npm init --yes
```



3. We install the packages we need.

```
$ npm i express dotenv multer pdfkit
```

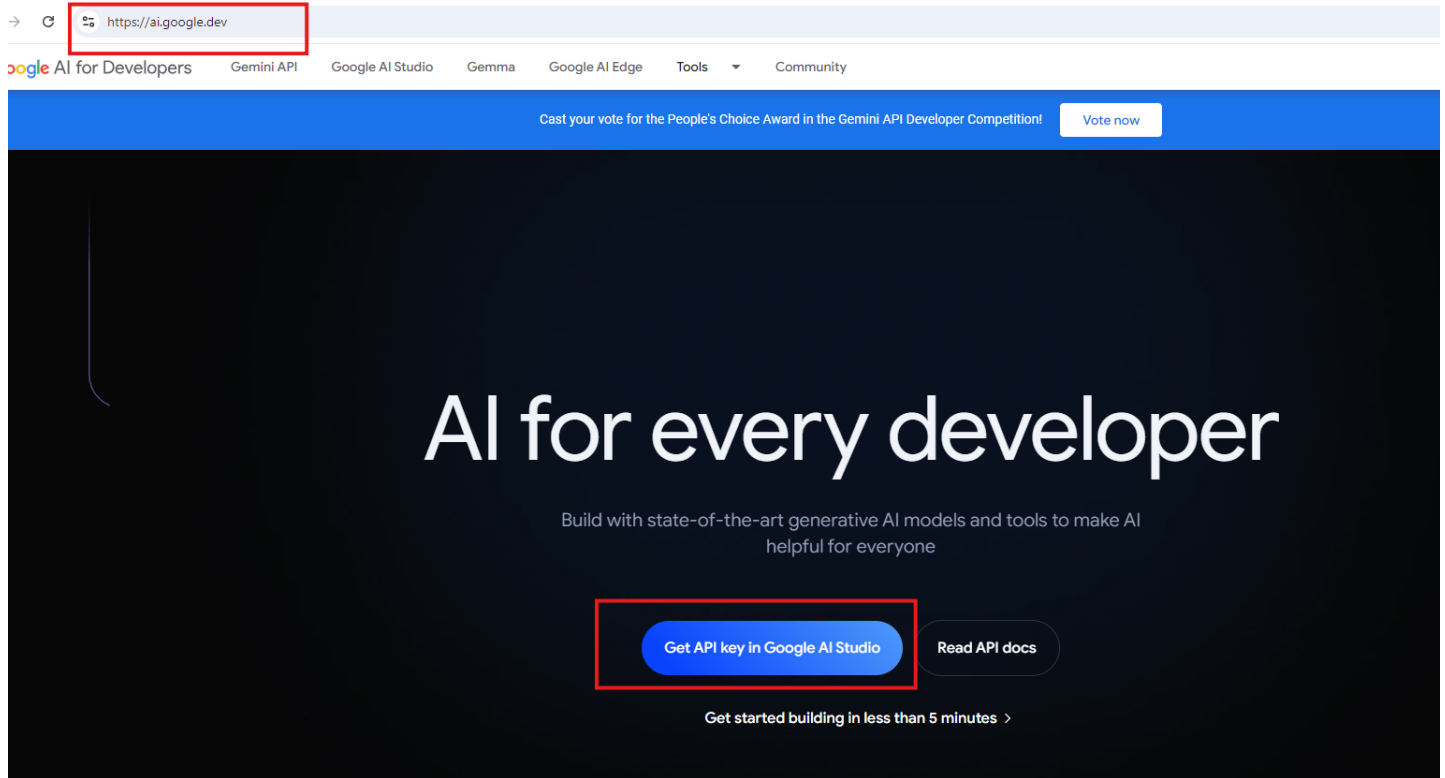
```
Rosilie@DELL MINGW64 ~/OneDrive/Desktop/CODING AI PROJECTS/PlantAnalysisTool
• $ npm i express dotenv multer pdfkit

added 139 packages, and audited 140 packages in 7s

45 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

4. Get GEMINI API KEY. Simply in the Google search, type GEMINI API.



5. Update the PACKAGE.JSON:

FROM:

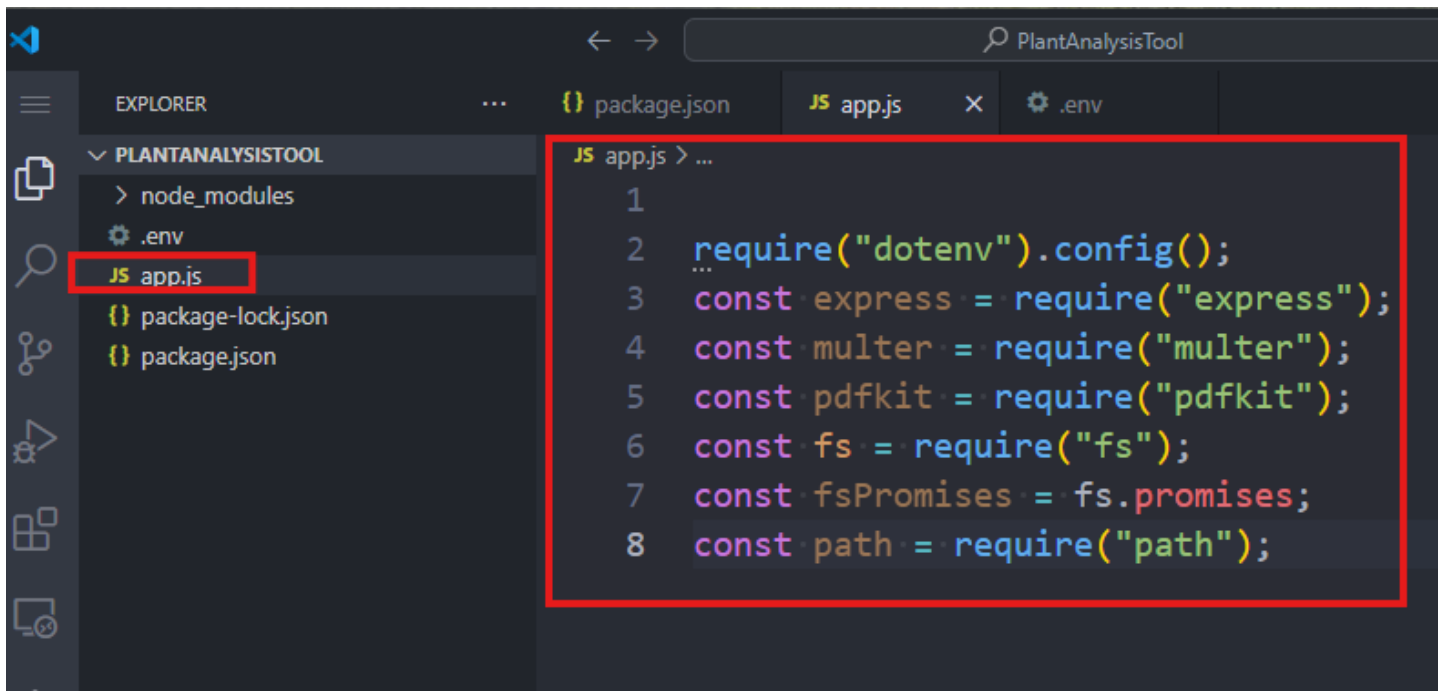
The screenshot shows the VS Code interface with the Explorer sidebar on the left displaying the file structure of the 'PLANTANALYSISTOOL' project. The main editor area shows the 'package.json' file. The 'main' field is highlighted with a red box, indicating the entry point of the application. The 'scripts' section is also visible, showing a 'test' script that outputs an error message.

```
{
  "name": "plantanalysistool",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "test": "echo \\\"Error: no test specified\\\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": "",
  "dependencies": {
    "dotenv": "^16.4.5",
    "express": "^4.21.0",
    "multer": "^1.4.5-lts.1",
    "pdfkit": "^0.15.0"
  }
}
```

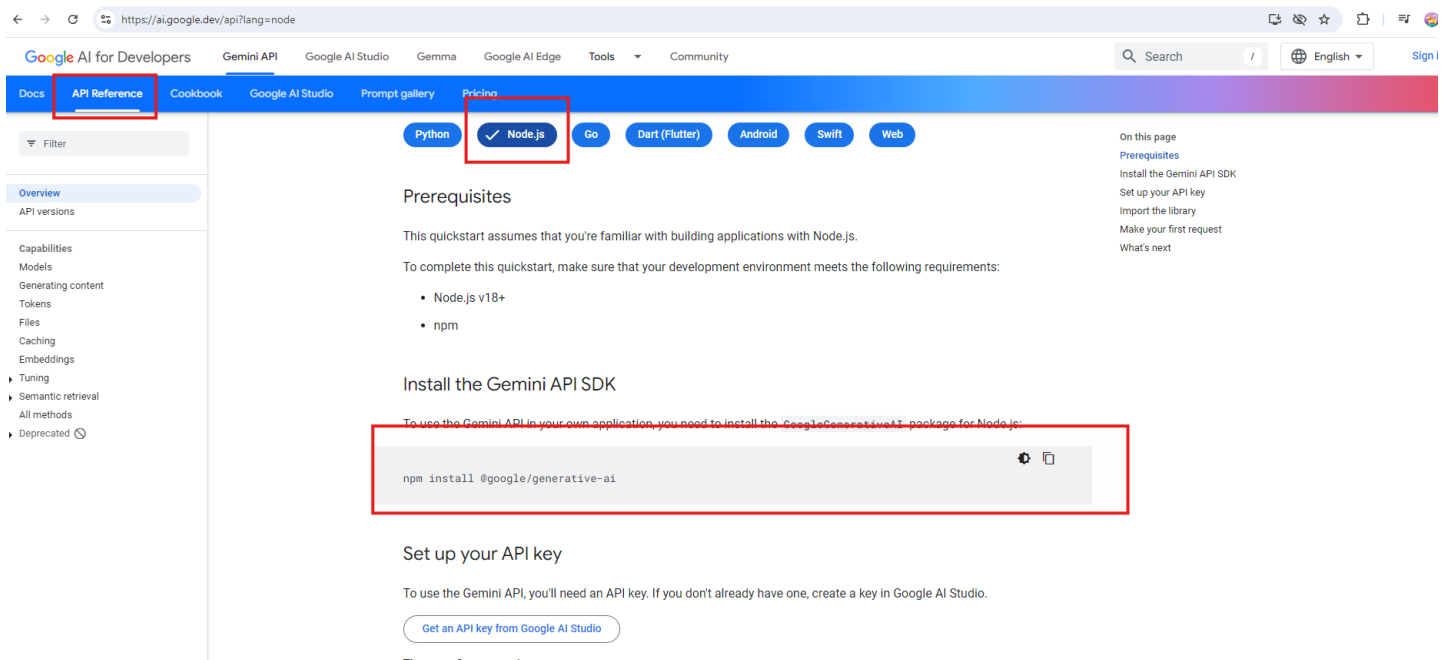
TO:

6.We created files APP.JS and .ENV files in the root directory.

In the APPS.JS:

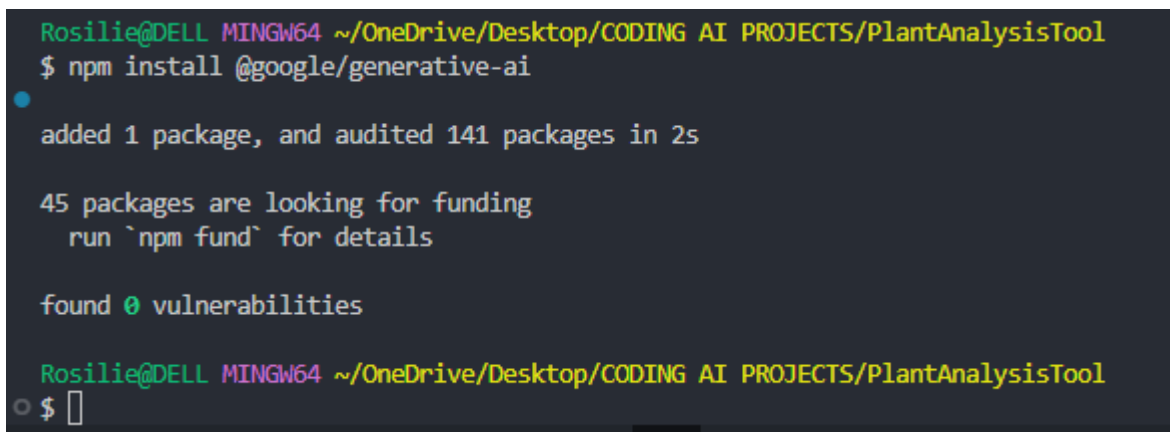


7. On Google AI Dashboard, select API REFERENCE, choose NODE.JS and get the code to install GEMINI API



8. Install the GEMINI API SDK in the terminal:

```
$ npm install @google/generative-ai
```

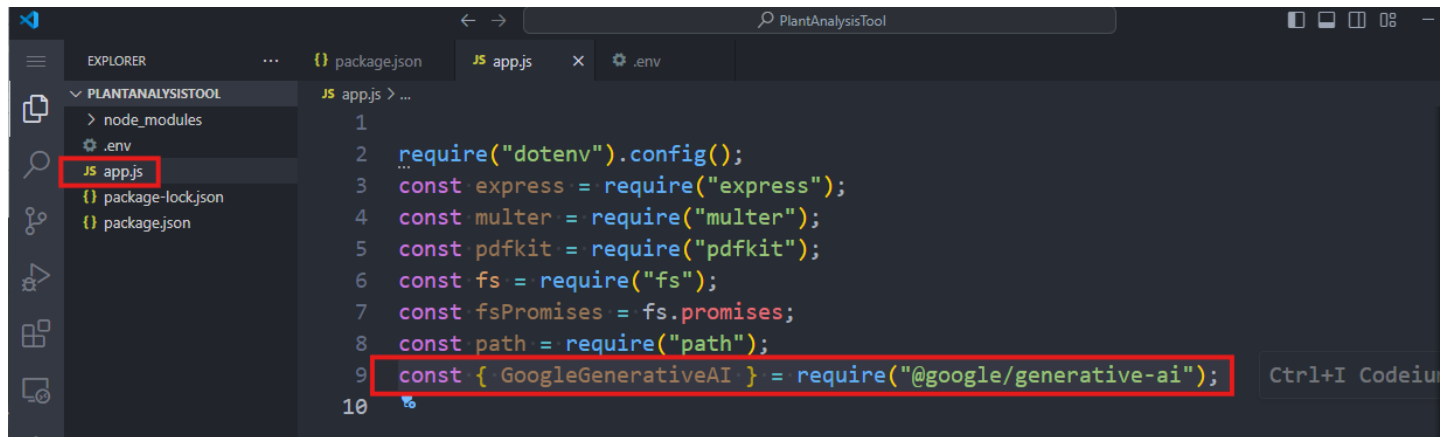


9. We copy this from the GEMINI API REFERENCE into our APPS.JS

Import the library

Import the Google Generative AI library.

```
const { GoogleGenerativeAI } = require("@google/generative-ai");
```



10. We updated our APPS.JS AS:

