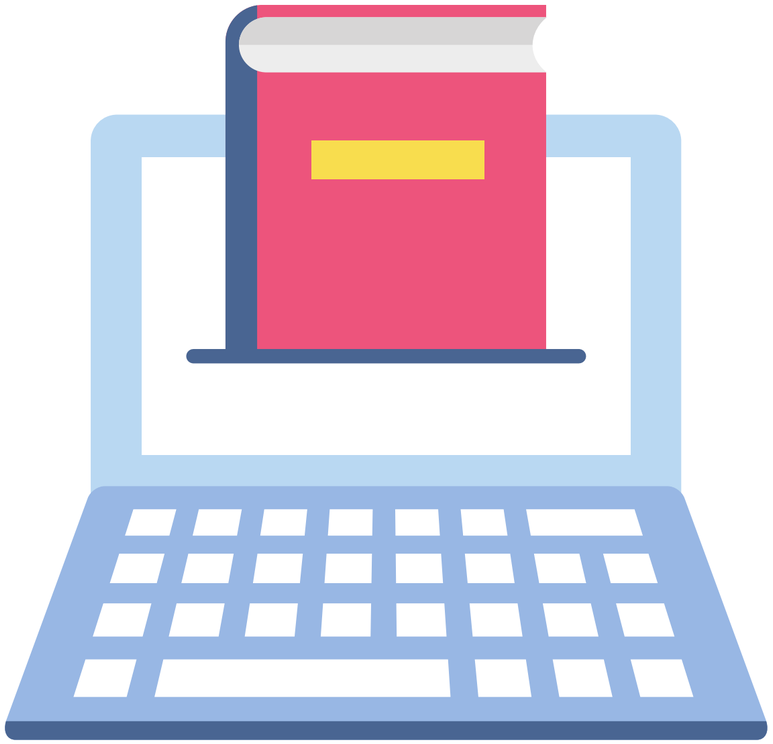
WEATHER FORECASTING TOOL

GITHUB COPILOT HACKATHON

VURA T N M SRINADH

APPROACH

1. PARSING THE CITY NAME FROM COMMAND LINE ARGUMENTS
2. RETRIEVING GEO CO-ORDINATES OF THE CITY PROMPTED
3. GETTING WEATHER OF THE RETRIEVED CO-ORDINATES.
4. PRINTING WEATHER ATTRIBUTES



LIBRARIES

1. ***requests** is used to call the API endpoints of OpenCage and OpenWeather and return the results*
2. ***json** is used to format the retrieved results as json*
3. ***argparse** is used to read the provided city name from command-line as argument*
4. ***opencageAPI** is used to retrieve the geo co-ordinates of the city name provided by the user*
5. ***openweathermapAPI** is utilised to get the detailed weather of the thus found co-ordinates*

RUNNING THE TOOL

1. ***Download the repo:*** *Download the tool from https://github.com/SrinadhVura/WeatherApp/tree/main*

2. ***Open any terminal:*** *Open any terminal say cmd in windows*

3. ***Navigate:*** *Navigate to the directory in which WeatherApp.py is downloaded*

4. ***Run the command:*** *Run the following command :*

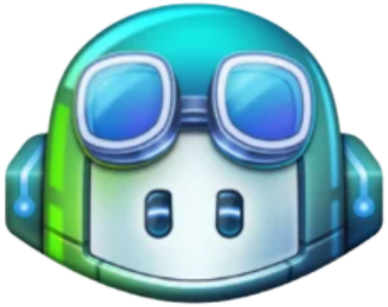
```
python WeatherApp.py <CITY_NAME>
```

5.***Observe results:*** *The detailed weather of the prompted city is displayed on the terminal*

HOW COPILOT HELPED ME

01

Increasing usability of code: In various segments of the code that I've written, github copilot have suggested minor adjustments that increased the usability of code.



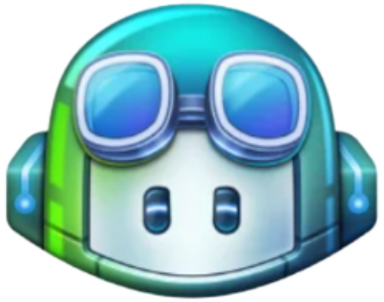
GitHub Copilot

HOW COPILOT HELPED ME

02

Auto Completion:

- *Github copilot helped by completing the parts of code that I am writing with utmost precision in according to the code that I am writing.*
- *Copilot helped me while displaying the required weather attributes by auto completing the formatting of attributes like temperature*



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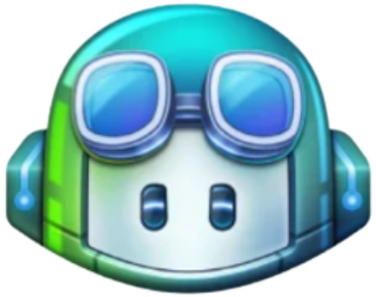
HOW COPILOT HELPED ME

03

Helping in functions: Copilot helped me to choose the best alternative available from multiple options for same functionality. For example, I have worked with argparse library many a times. But I am unable to choose the correct functions from argparse library for this tool. Copilot helped me in choosing the useful functions



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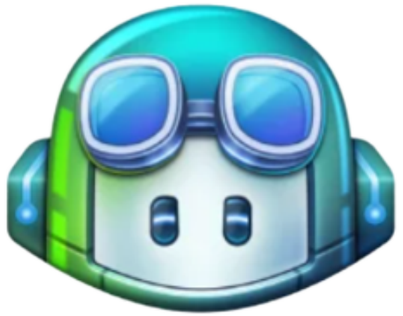
HOW COPILOT HELPED ME

04

Error handling: Copilot helped me in handles the errors that popped up while using the opencage geocoder api. I have used the API key at wrong place and copilot assisted me to correct the code wherever necessary.



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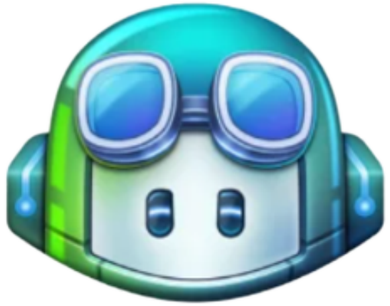
HOW COPILOT HELPED ME

05

Documenting the code: After completing the code, I have realised that I didn't write the required comments in code that I have written in my notebook. While I am trying to write the comments, copilot have completed the comments with those similiar to ones I have wriiten down.



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Thank You