

Radio Frequency Interference Monitor

To install packages listed in `packages.txt` on Ubuntu, Mac, and Windows using `pip`, follow these steps:

Ubuntu

- 1. Open Terminal.**
- 2. Ensure Python and pip are installed:**

```
sudo apt update  
sudo apt install python3 python3-pip
```

- 3. Navigate to the directory containing `packages.txt`:**

```
cd /path/to/directory
```

- 4. Install packages:**

```
pip3 install -r packages.txt
```

Mac

- 1. Open Terminal.**
- 2. Ensure Python and pip are installed(use Homebrew if needed):**

```
brew install python
```

- 3. Navigate to the directory containing `packages.txt`:**

```
cd /path/to/directory
```

- 4. Install packages:**

```
pip3 install -r packages.txt
```

Windows

1. Open Command Prompt or PowerShell or Visual Studio Code.

2. Ensure Python and pip are installed (download from [python.org](https://www.python.org/downloads/) if needed):

```
python --version  
pip --version
```

3. Navigate to the directory containing `packages.txt`:

```
cd \path\to\directory
```

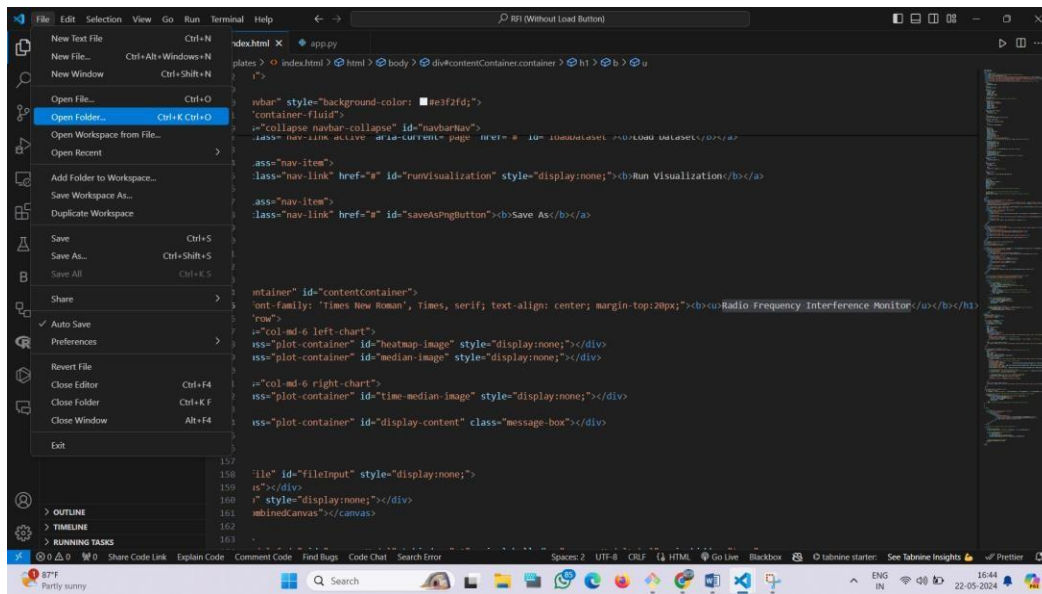
4. Install packages:

```
pip install -r packages.txt
```

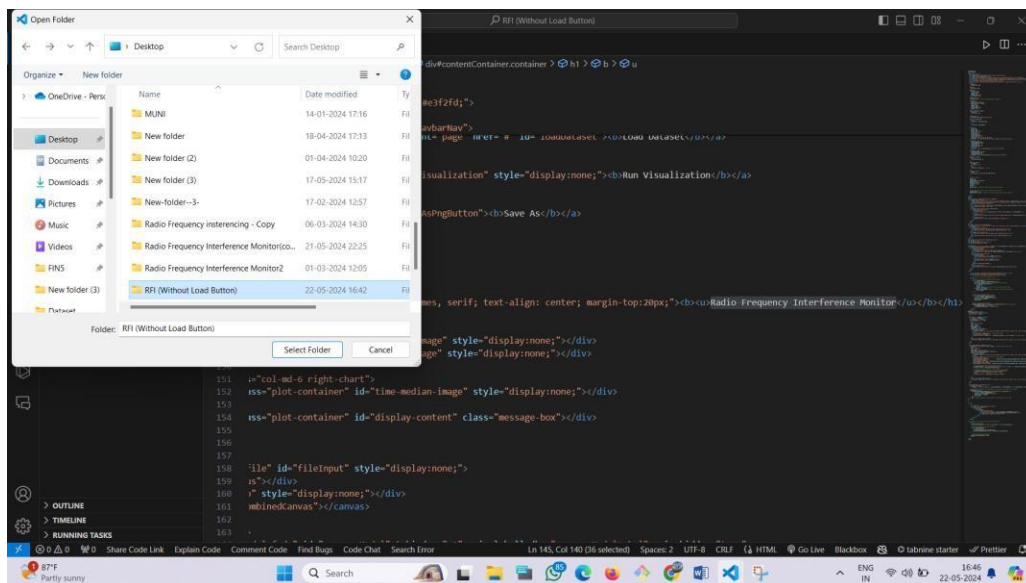
Make sure the `packages.txt` file contains the following lines:

```
Flask  
Pandas  
Numpy  
Plotly
```

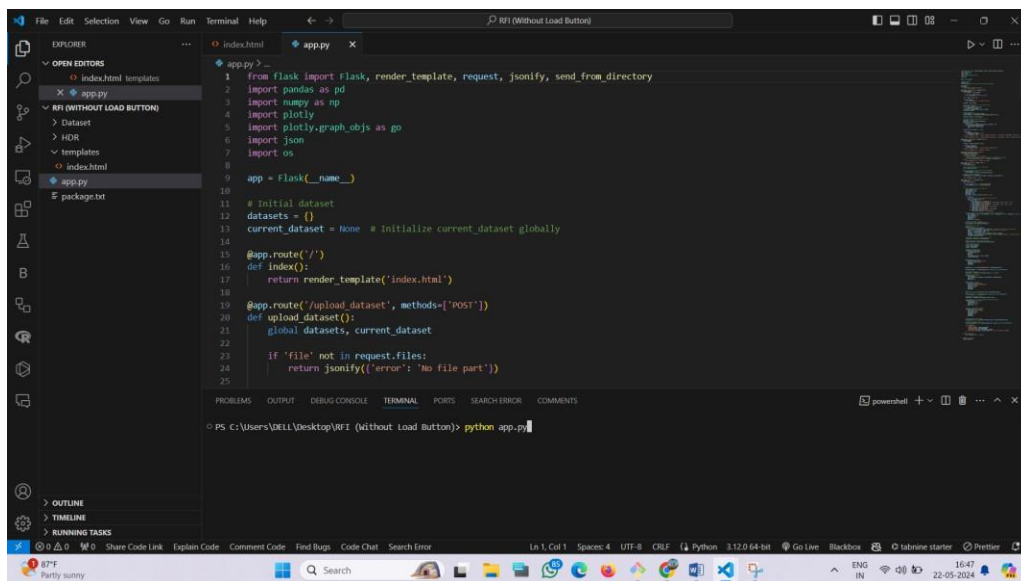
Steps:-



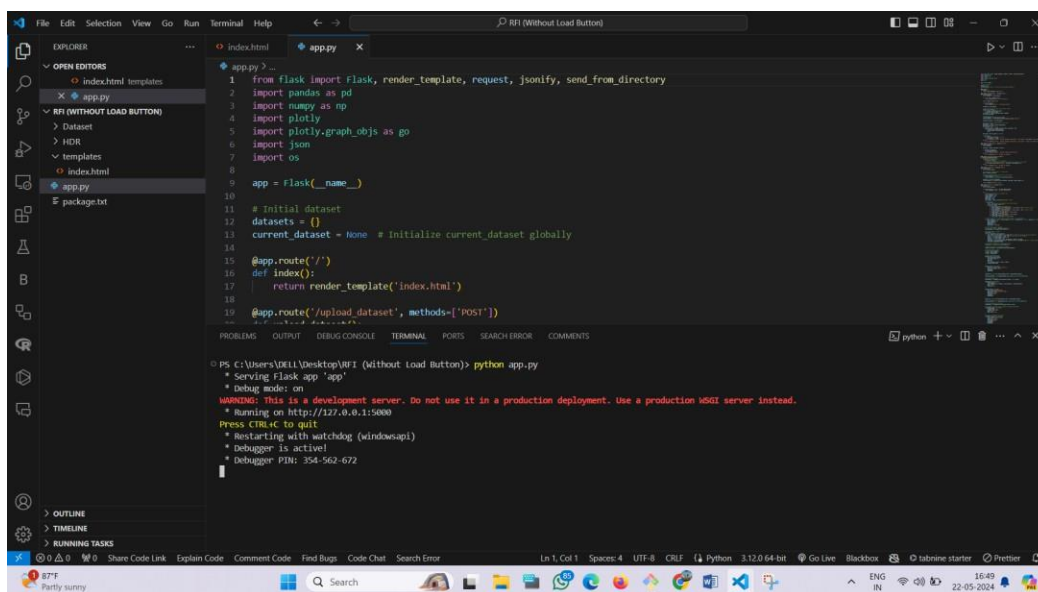
Step 1:- Open the new folder in Visual Studio Code.



Step 2: - Select the folder named "RFI(Without Load Button)".



Step 3:- Select the Python code, open the terminal, and type “python app.py”.




Step 4 :- The URL will be generated.

Step 5 :- Copy the URL and paste it into a browser, after pasting the URL in Browser, the web application will get displayed.

Frontend Dashboard

Dashboard


Charts

 Raman Research Institute

Dashboard

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Radio Frequency Interference Monitor

4/7/2024 1:24:49 pm

Dashboard

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Load Dataset Save As

Radio Frequency Interference Monitor

Heatmap

Time Median Plot

Median Frequency Plot

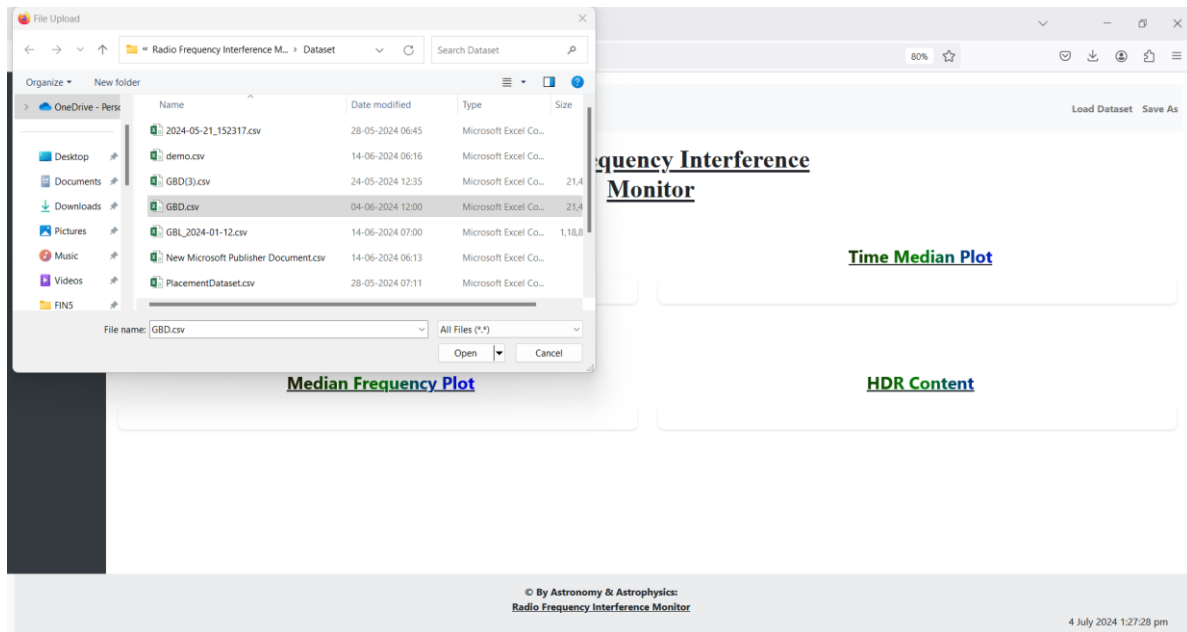
HDR Content

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Radio Frequency Interference Monitor

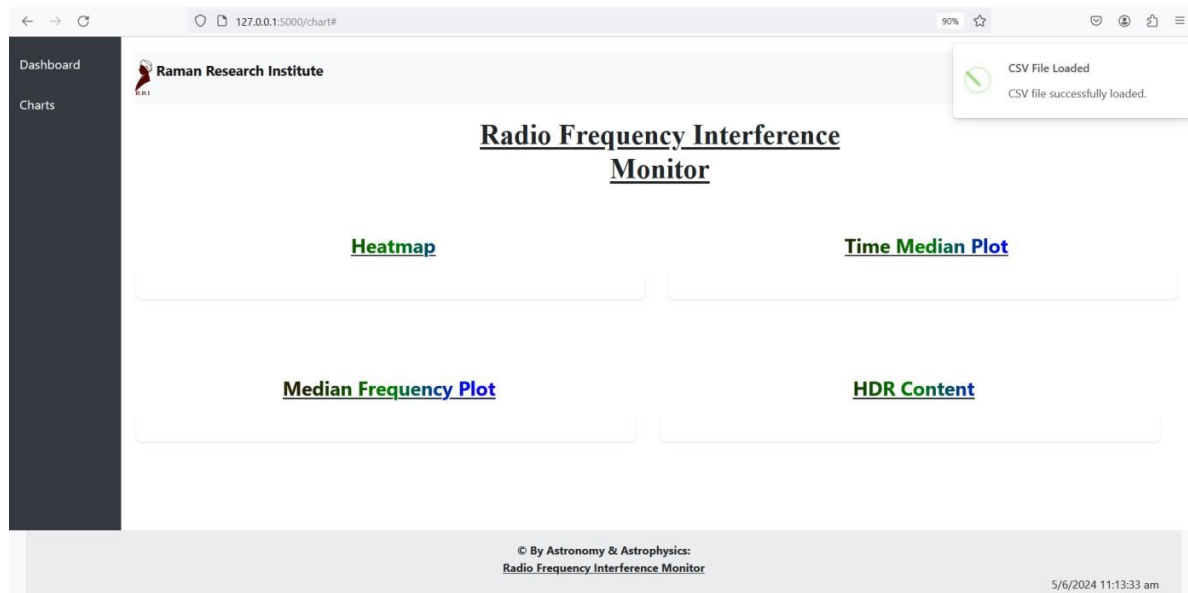
4 July 2024 1:26:32 pm

Step 6 :- Click on the "Load button".

Step 7 :- Select the CSV file.



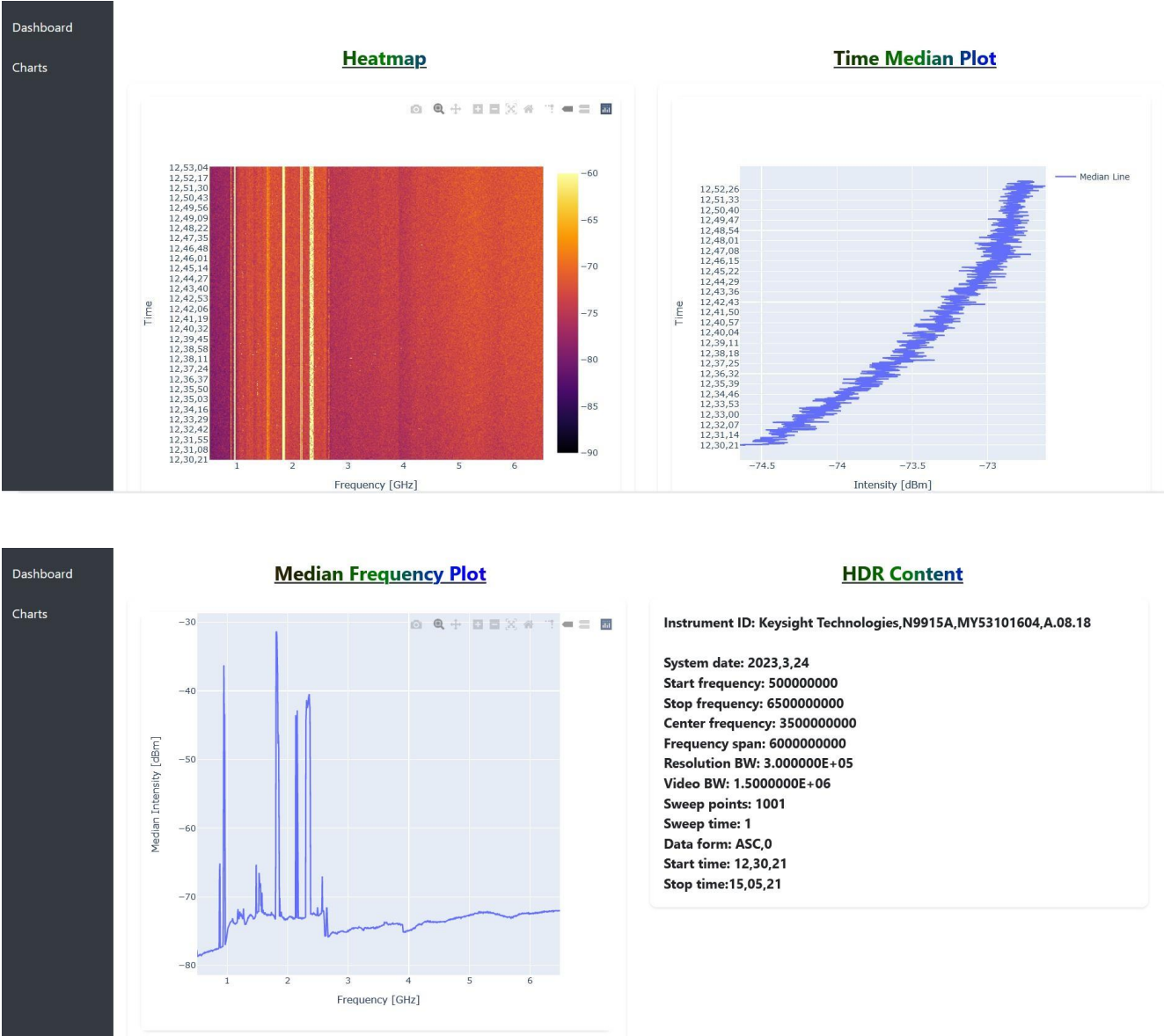
After selecting the CSV file, you will receive a pop-up message saying "Your CSV file has been successfully uploaded."



Step8: If an HDR file with the same name exists, its content will be displayed on the frontend. For example:

If user select GBD.csv and GBD.hdr exists in the HDR folder, it will read and display the content of the HDR file.

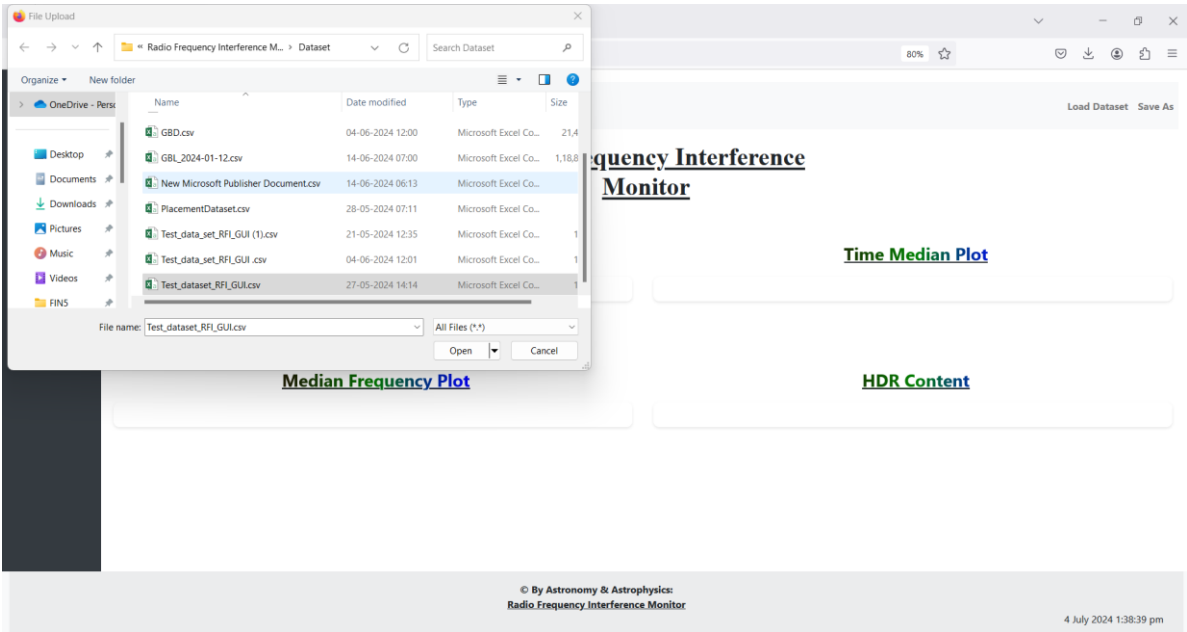
Output(Heatmap , Time median , median Frequency Plots and HDR content)



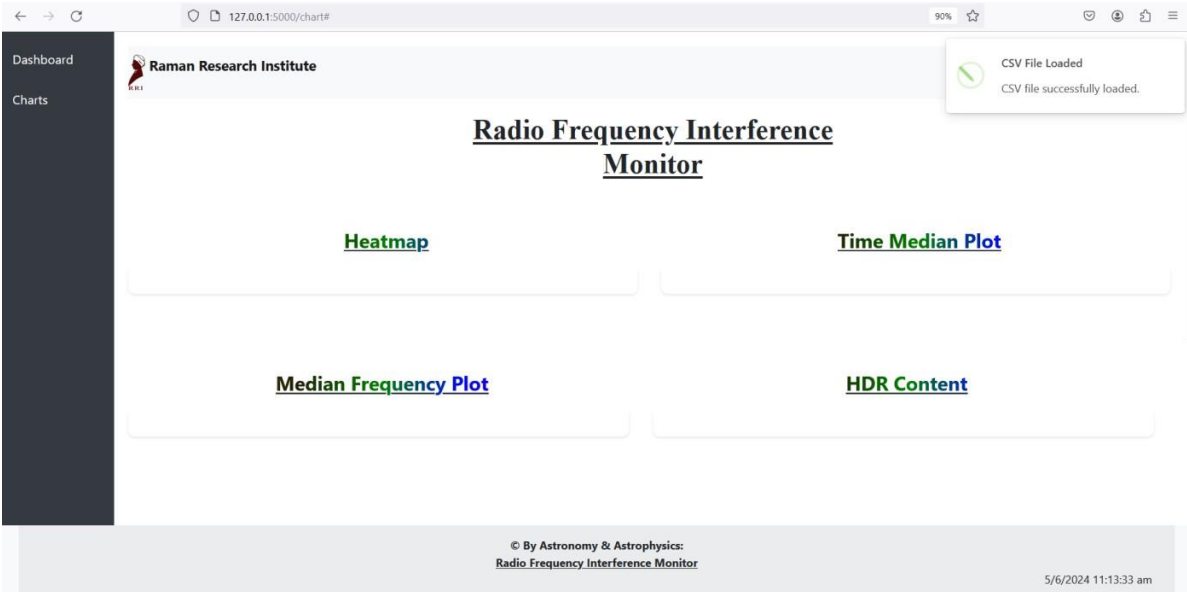
Step 9:- If there is no HDR file with the same name as the CSV file in the Download folder, an error message will be displayed.

For example:

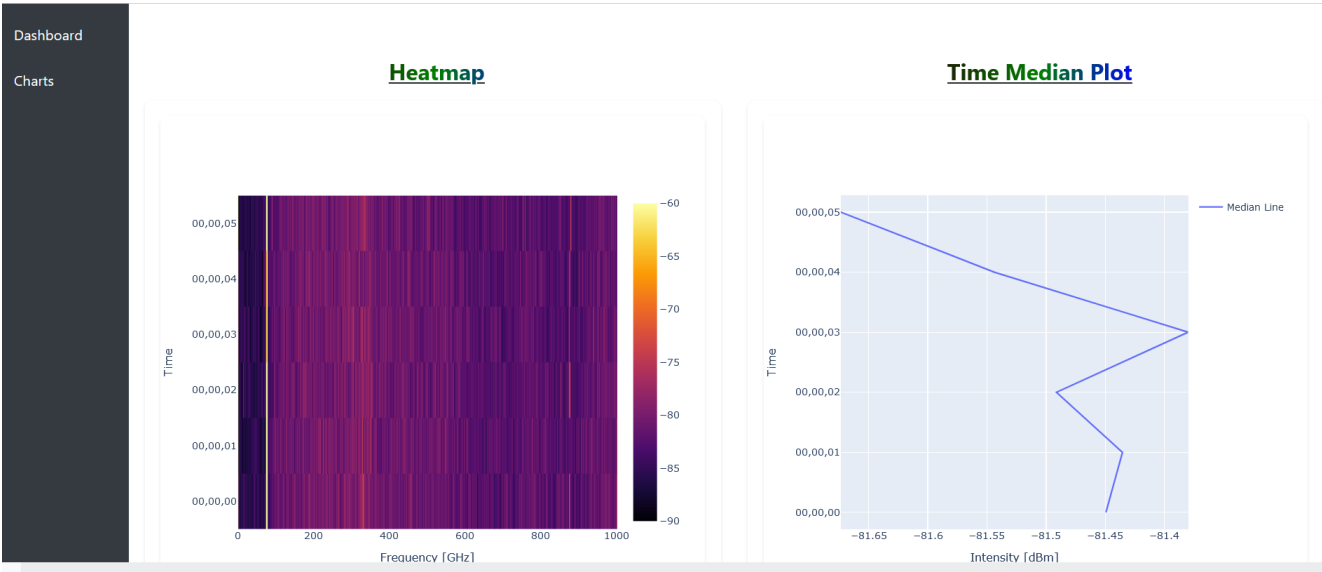
If user select Test_data.csv and Test_data.hdr does not exist in the Download folder, an error message "Hdr Not Found!!!!" will be displayed.



After selecting the CSV file, you will receive a pop-up message saying "Your CSV file has been successfully uploaded."



Output (Heatmap, Time Median Plots , median frequency and Hdr



Error messag

