This code requires 3 file paths and 7 folder paths to be specified as inputs, as follows:

* **data\_path**: A CSV **file** containing the fire data in each island is prepared as input for the RF model. This file is located in each island's folder, with files named **BigIsland\_FireData-2002-2019.csv, Kauai\_FireData-2002-2019.csv, Maui\_FireData-2002-2019.csv,** and **Oahu\_FireData-2002-2019.csv.**
* **ref\_geotiff\_path**: The path to the island-specific TIFF **file**, representing the geographic dimensions of each island. These files include **Hawaii.tif, Maui.tif, Kauai.tif,** and **Oahu.tif.**
* lc\_raster\_path: The path to the land cover raster **file** for each island in TIFF format. These files include **PerCov2016model\_bi.tif, PerCov2016model\_ma.tif, PerCov2016model\_ka.tif,** and **PerCov2016model\_oa.tif.**
* **rh\_path**: The **folder** path containing **relative humidity data** downloaded from the **HCDP**.
* **tmax\_path**: The **folder** path containing **Temperature maximum data** downloaded from the **HCDP**.
* **ndvi\_path**: The **folder** path containing **daily NDVI images**. The NDVI-daily data is generated from the main NDVI data downloaded from the **HCDP**.
* **pre\_path**: The folder path containing rainfall images downloaded from the HCDP.
* **api\_path**: The folder path containing API images, which are derived from rainfall data.
* **climate\_data\_folder**: The path where climate variables rainfall, Tmax, NDVI-daily, API, and precipitation are stored. These variables are initially compiled into an Excel **file**, where each variable represents a column, each row represents a pixel, and each day has a separate Excel file. For all four islands, this “**Climate data**” file is stored in the designated folder.
* **output\_folder**: The **folder** path for saving the generated “**fire ignition maps**.” An output file with this name is stored in the respective folder for each island.

The necessary libraries for running this code are listed in the "**requirements.txt**" file.