## **Description of scripts**

(please reach out to ashwath.ramakrishnan@colorado.edu for questions)

# Download\_scenes.py

Run in command line with *python3 download\_scences.py -id <fid> -s <satellite[Sentinel, Landsat]>* to download Sentinel or Landsat image by target fire id.

## config.py

Python script to set download settings and user credentials for Landsat and Sentinel APIs. Used by download\_scenes.py.

## utils.py

Python script with some utility functions used in download scenes.py.

## Catalog\_product\_search.ipynb

Notebook to search Sentinel product catalog with specified search conditions based on date, location etc. \*Not needed for Firedpy integration \*.

#### Dataset\_generation.ipynb

Notebook to create images (dNBR and segmentation masks) and compile the dataset from the optical bands downloaded in download\_scenes.py.

#### Training\_dev.ipynb

Notebook to train a deep learning model using the dataset stored in the following folder structure in /Bhaltos/ASHWATH/Dataset:

/Dataset – /dNBR (predictors)

/Masks (targets)

/RGB (not needed for training)

# **Training.py**

Same as training dev.ipynb, but as a Python script.