Here are the steps to run the project code.

The prerequisites are google colab (IDE) and visual studio (code editor) .

Modules to be downloaded in visual studio are

* Tensorflow  
  pip install tensorflow
* Streamlit  
  pip install streamlit
* Numpy  
  pip install numpy

Steps to be done in the google colab

* After loading the code, download the dataset from kaggle source (<https://www.kaggle.com/datasets/apollo2506/eurosat-dataset>) and upload the dataset to your respective drive .
* One way is you can directly import dataset from Kaggle and run the code.
* Another way is - After uploading dataset into the drive , mount the google drive to the colab. Then

# Mount Google Drive

from google.colab import drive

drive.mount('/content/drive')

# Provide the path of your dataset in Google Drive

# Replace '/content/drive/My Drive/path/to/your/dataset' with the actual path of your dataset

dataset\_path = '/content/drive/My Drive/path/to/your/dataset'

# Copy the dataset from Google Drive to Colab

!cp -r "$dataset\_path" /content/

# Now you can access your dataset in Colab environment

import os# List all files in the dataset folderdataset\_files = os.listdir('/content/dataset\_folder')# Print the list of filesprint("Files in the dataset folder:")for file in dataset\_files: print(file)

* Now click on the run all button and wait till its completion.

Steps to be done in visual studio:

* After downloading all the modules in the visual studio now change the directory to the current working directory and run the commands.
* Now run the command streamlit run file\_name.py
* It navigates to the web portal ,where we can test the application with different geospatial images.