Training Day 8 Daily Dairy

June 19, 2024

Tasks Accomplished:

1. Study and Learning:

- Continued studying the map() and reducer() functions in Google Earth Engine (GEE).
- Enhanced understanding of these functions to efficiently process and analyze large datasets.

2. Data Processing and Analysis:

- Calculated the monthly Land Surface Temperature (LST) for a five-year period using MODIS data.
- Generated a time series chart to visualize the monthly LST trends over these five years.

3. Enhanced Vegetation Index (EVI):

- Calculated the EVI for the region of interest (Ludhiana district) using MODIS data.
- Used the map() function to apply the EVI calculation across the dataset.
- Generated a time series chart for EVI to visualize vegetation changes over time.

Key Learnings:

- Gained deeper insights into the application of GEE for environmental data analysis, specifically in calculating and visualizing time series data for EVI and LST.
- Understood the importance of accurate data preprocessing and the benefits of using GEE's powerful functions for large-scale data analysis.

Challenges Faced:

- Ensuring the accuracy and consistency of data filtering and preprocessing steps.
- Handling large datasets efficiently to avoid performance issues in GEE.