Training Day 9 Daily Dairy

June 20, 2024

- Calculated combine timeseries chart for NDVI and LST
- Studied about effect of reduced NDVI and increased LST

Tasks Accomplished:

1. Data Processing and Analysis:
   - Calculated the time series chart for the Normalized Difference Vegetation Index (NDVI) using MODIS data.
   - Generated a time series chart for Land Surface Temperature (LST) to visualize trends over time.

2. Study on Effects:
   - Investigated the effects of reduced NDVI and increased LST on the environment and ecosystem.
   - Examined how changes in vegetation cover (indicated by NDVI) impact land surface temperature and vice versa.

Key Learnings:

- Understanding the relationship between NDVI and LST is crucial for assessing environmental changes and their impacts on the ecosystem.
- Reduced NDVI typically indicates a decrease in vegetation cover, which can lead to higher LST due to less shading and increased heat absorption by the ground.

Challenges Faced:

- Analysing the complex interactions between NDVI and LST, as multiple factors influence these variables.
- Ensuring the accuracy of time series data and interpretations derived from the visualizations.