हिमनदी संरक्षण | सबैका लागि समयमै पूर्व सूचना

Glacier Preservation | Closing the Early Warning Gap Together

2025 International Year of Glaciers' Preservation

विश्व हिमनदी दिवस
विश्व जल दिवस
विश्व मौसम दिवस

नेपाल राष्ट्रिय हिमनदी, जल तथा मौसम सप्ताह २०८१

Nepal National Glacier, Water and Weather Week (NNGWWW) 2025

४-१० चैत २०८१ (17-23 March 2025)

CALL FOR APPLICATION

TRACKING SNOW AND ICE:

Hands-On Sessions with Google Earth Engine

17, 19 & 22 March

* Online Hands-on Session

Application closes on: 15 March 2025

scan for registration or login
tinyurl.com/GEE-NNGWWW2025

Organizers

GeoDev | OSGeo Nepal | The Small Earth Nepal-2001 | unesco | unesco Chair

Date	Session
17th March (Day 1)	Introduction to Google Earth Engine
19th March (Day 2)	Hands-on Session on snow and ice mapping
22nd March (Day 3)	Problem solving, Q&A, Presentation from participants, and many more…

Google Earth Engine

Cloud Computing

My Introduction

- Geospatial researcher | Founding member of OSGeo Nepal Chapter
- MSc in Geoscience from University of calgary, Canada | BE in Geomatics Engineering
- I love discussing and sharing geospatial & geoscience related contents!
- How to reach me? Try **@iamtekson** in Instagram, Twitter, YouTube and all other social media….

What is your background?

Have you worked with satellite imagery before?

Have you used Google Earth Engine (GEE) before?

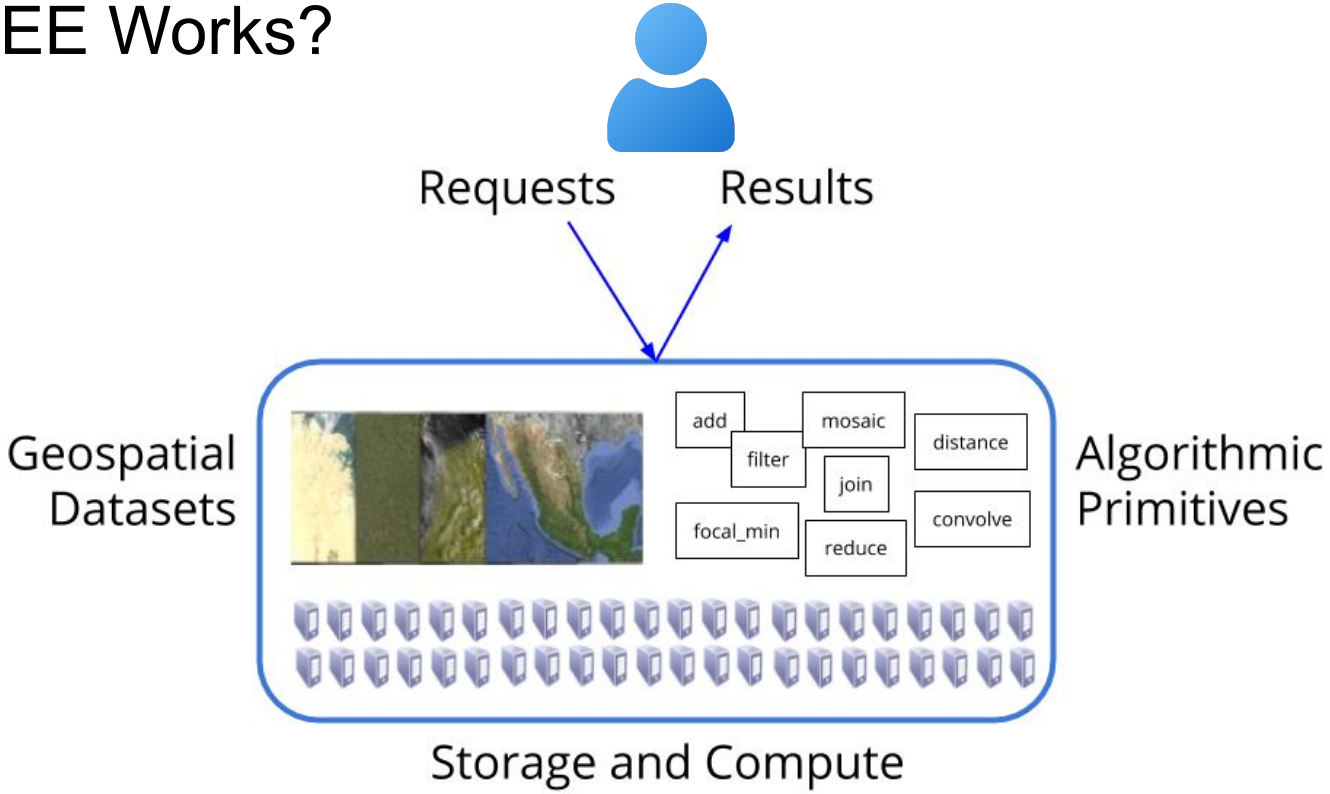
What is Google Earth Engine?

- A cloud-based platform for geospatial analysis.
- Provides access to satellite imagery and geospatial datasets.
- Enables large-scale environmental and remote sensing analysis.

Key Features of Google Earth Engine

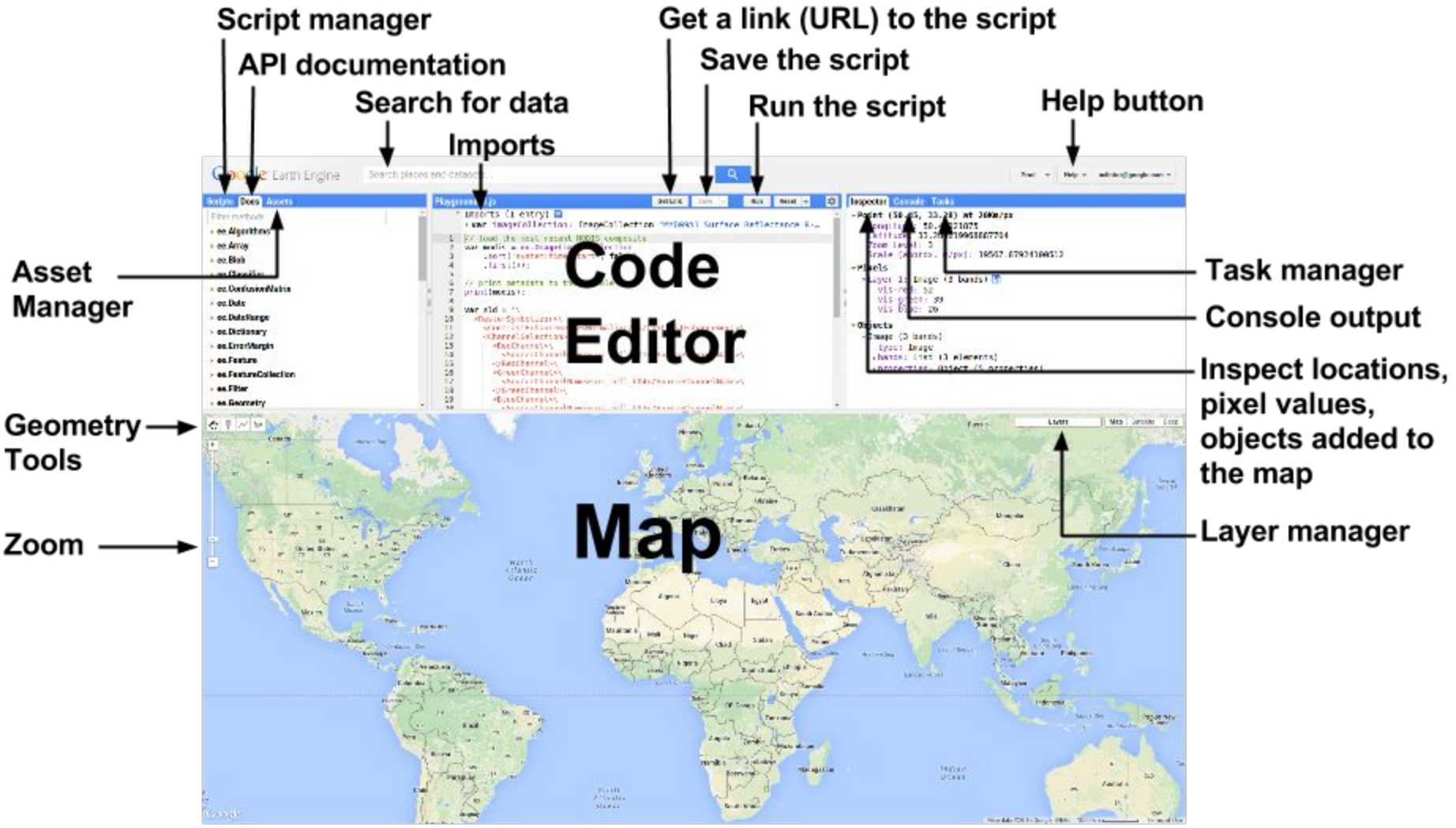
- Access to **petabytes** of satellite imagery (Landsat, Sentinel, MODIS, etc.)
- **Cloud computing** for large-scale analysis
- **JavaScript & Python APIs** for scripting and automation
- **Machine learning integration** for classification and predictions

How GEE Works?



Getting Started with GEE

- Visit earthengine.google.com
- Request access to the platform
- Use Code Editor for scripting
- Access datasets via Earth Engine Data Catalog


Script manager
API documentation
Search for data
Imports
Get a link (URL) to the script
Save the script
Run the script
Help button
Asset Manager
Code Editor
Task manager
Console output
Inspect locations, pixel values, objects added to the map
Geometry Tools
Zoom
Map
Layer manager

Want to explore more?

- Google Earth Engine from Basic to Advance (YouTube Playlist)
- Google Earth Engine Basic (Amsterdam Science Park Study Group)
- End-To-End Google Earth Engine (Spatial Thoughts)
- Geemap (Python)

Want to support me?