

# Dataset:

## 1. Precipitation Data:

- IMD (Daily) - [IMD](#)
- ERA5 (Hourly) - <https://cds-beta.climate.copernicus.eu/datasets/reanalysis-era5-land?tab=download>

## 2. Elevation Data:

- SRTM (90m) - [SRTM 90m](#)
- SRTM (30m- Open source)- <https://earthexplorer.usgs.gov/> or [https://developers.google.com/earth-engine/datasets/catalog/USGS\\_SRTMGL1\\_003](https://developers.google.com/earth-engine/datasets/catalog/USGS_SRTMGL1_003)

## 3. Urban Infrastructure:

- Road network: [Road Network](#)
- Built-up and Administrative boundary: [Built-up and Administrative boundaries](#)

## 4. Demographic Data:

- Census data: <https://censusindia.gov.in/census.website/data/census-tables>

## 5. Past Flood Incidents data:

- Kochi city (Periyar basin): [Kochi \(Periyar basin\)](#)
- Surat city (Tapi basin):[https://iitgnacin-my.sharepoint.com/:f:/g/personal/19310064\\_iitgn\\_ac\\_in/Eos9uMxanFplqgCOCguoHBsBvahASY99OlyGBG1SwTHbow?e=0I97qE](https://iitgnacin-my.sharepoint.com/:f:/g/personal/19310064_iitgn_ac_in/Eos9uMxanFplqgCOCguoHBsBvahASY99OlyGBG1SwTHbow?e=0I97qE)

## 6. Remote sensing data:

- Landuse landcover data:<https://viewer.esa-worldcover.org/worldcover/>
- Vegetation indices:
  - a.) [https://developers.google.com/earth-engine/datasets/catalog/MODIS\\_MOD09GA\\_006\\_NDVI](https://developers.google.com/earth-engine/datasets/catalog/MODIS_MOD09GA_006_NDVI) (MODIS)
  - b.) [https://developers.google.com/earth-engine/tutorials/tutorial\\_api\\_06](https://developers.google.com/earth-engine/tutorials/tutorial_api_06) (Landsat)
- Surface water extraction:
  - a.) [https://github.com/raviraj-dave96/concurrent\\_event\\_infrastruture\\_perturbation/blob/main/Waterbody\\_extraction.js](https://github.com/raviraj-dave96/concurrent_event_infrastruture_perturbation/blob/main/Waterbody_extraction.js)
  - b.) [https://disasters.nasa.gov/sites/default/files/SAR\\_Part1.pdf](https://disasters.nasa.gov/sites/default/files/SAR_Part1.pdf)