



SOLUTION

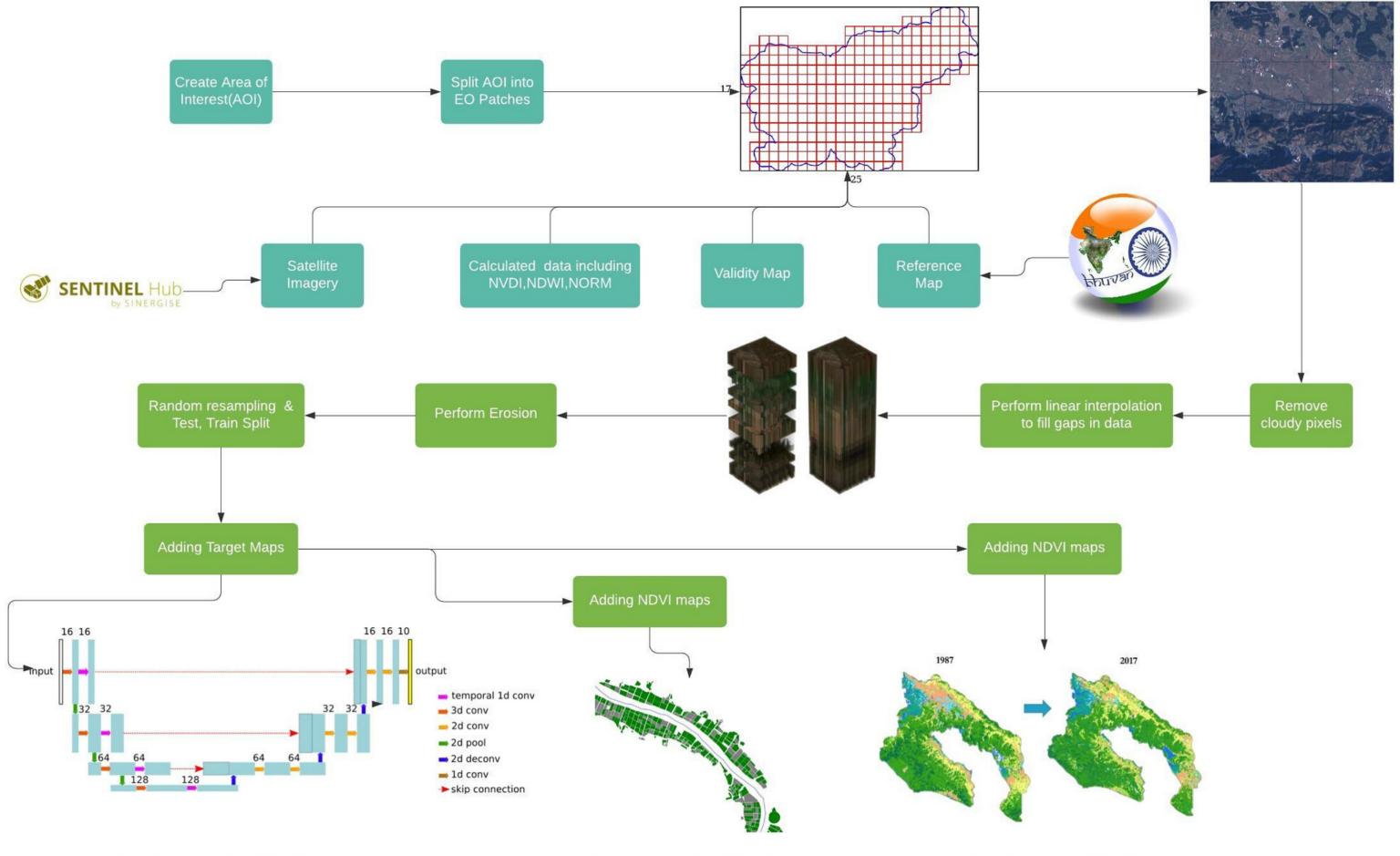
Land use classification is a resource intensive and expensive process.

Our solution is a supervised learning technique of automating land use classification. We have used a temporal convolutional network (TFCN) based architecture to perform the task based on data obtained from ISRO.

Further building on the provided data we have developed a web-app based solution which can perform crop classification and real-time land-use change detection. Our results are available at:

https://sihaanssr.github.io/isro

Solution Architecture



Land cover classification Crop cover classification Land change detection

Use Case diagram

Chooses the required area of interest Predicted Output Land Use Classification Uploads Image 0perations Crop Classification Crop Details User logs in Change Detection of Lands Crop change analysis land Change Detection Get Help In Decision Making

Technology Stack

















ASSESSING CHANGES THAT HAVE
OCCURED OVER A GEOGRAPHICAL AREA
FROM SATELLITE IMAGES



PROPER ANALYSIS OF LAND BEFORE
AND AFTER ANY NATURAL / MAN MADE
CALAMITY

SHOWSTOPPER



ANALYSIS OF DEFORESTRATION,
SHRINKING OF FRESH WATER SOURCES
AND COASTAL EXPANSION



HELP IN BETTER POLICY MAKING FOR URBAN AS WELL AS RURAL AREAS



DEVELOPEMENT ANALYSIS OF URBAN GROWTH AND IRRIGATION

