

Innovations/Research Gaps

- 1. St. Thresh. depending only on Sentinel-1 backscatter instead other features such as DEM/slope can be added
- 2. Uncertainity in overestimation or underestimation when using only St. Thresh. method. ML allows differentiating b/w flood & non flood
- 3. Existing ML based flood maping methods require extensive samples, which are not available most of the times
- 4. Cloud hosted app, with ability to differentiate rapid accurate flood upto division level (atleast)
- 5. Our method will be based on historical timeseries data, allowing more accurate results in identifying flood water

To Do:

- 1. use soil moisture, and ether soil features (soil water retention potential)
- 2. Everyone uses otsu's or st. thr. method for automation which are not reliable and recent study highlight their limitations.