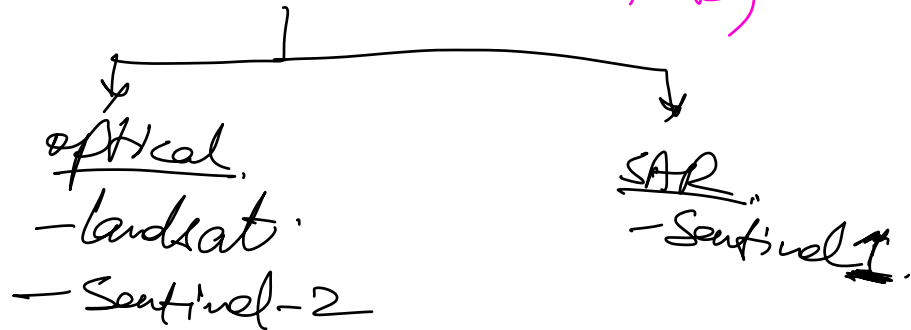
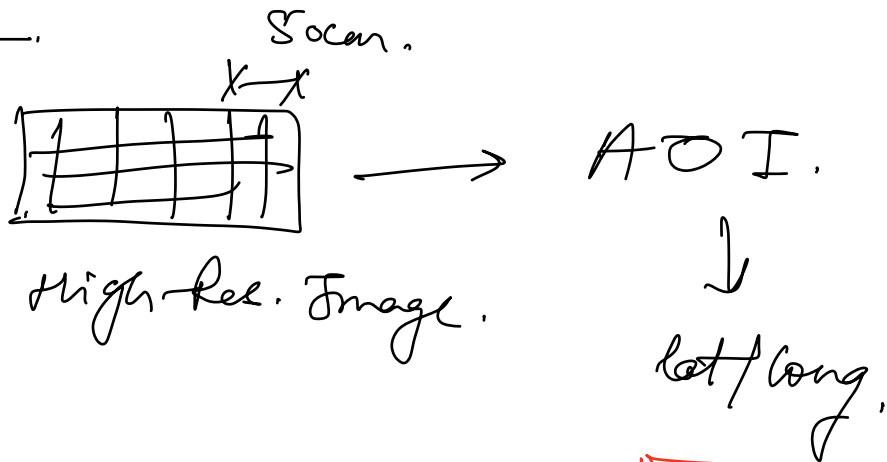


Google Earth Engine.

↳ Data fetch. (Aprok)

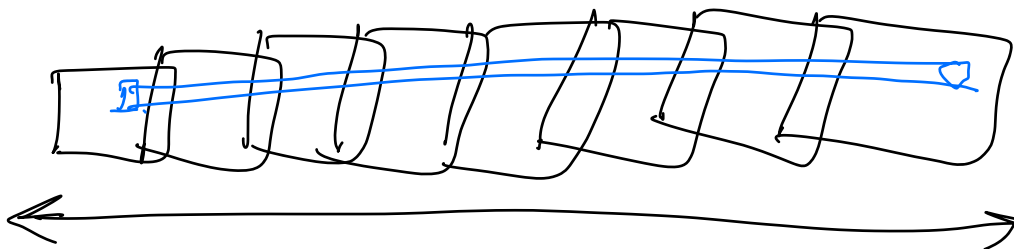


Floods



Sentinel-1

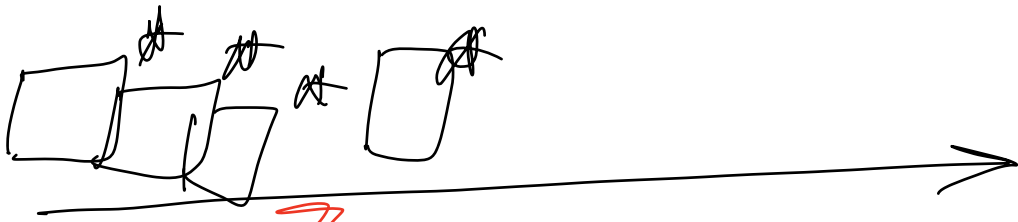
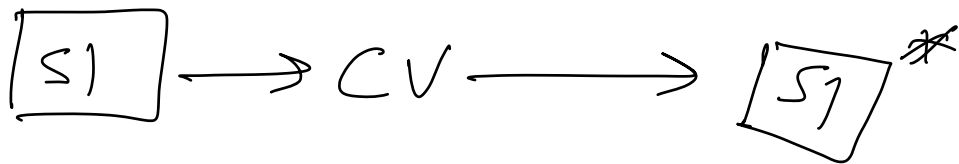
SAR



↓ computer vision.

opencv.

↓ morphology (AOK)



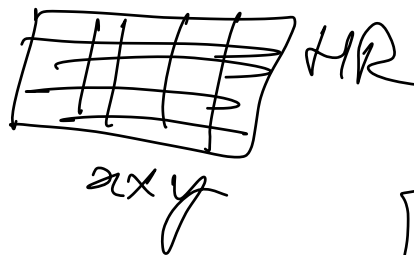
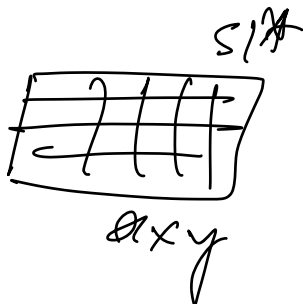
↓
AI.

Input data — Method — output data.

(Labels)

$S1^*$ time series

High-res.



Labels:

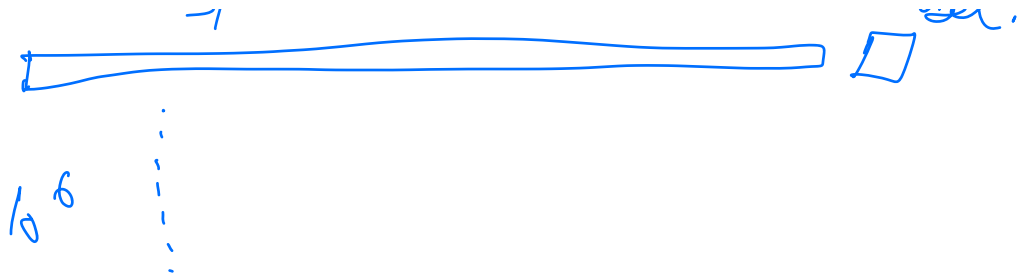
Flood

NO-Flood

[GIS]

$S1^*$

GIS



Training Testing Val.

LSTM \rightarrow Neural (TP)

X

Accuracy Assessment: Confusion Matrix
F1-Score.

Hyper parameter

Introduction - 8 pages. $\left\{ \begin{array}{l} \rightarrow \text{floods.} \\ \rightarrow \text{GEE.} \\ \rightarrow \text{CV} \\ \rightarrow \text{AI} \end{array} \right.$

Data & Methods - GEE, HR.
Morph., LSTM.

Results - Model. (Tensorboard)

- Accuracy.
- Hyperparameter Tuning.

Conclusions
