**This folder contains following works:**

* Stress prediction using RF from BSIF data (re-generated for later purpose)
* Stress prediction using LR from BSIF data
* Slope prediction using two RF models from BSIF + predicted stress fusion
* Slope prediction using sequential RF+LR models from BSIF and predicted stress data

**BSIF + predicted stress fusion**

**Predicted Stress** +

**BSIF**

RF

Predicted stress

BSIF

RF

**Prediction**

**Slope**

**Sequential RF+LR models**

LR

RF

Predicted stress

**Prediction**

**Slope**

BSIF

**NOTE: Potential data leak during optimization passed to second stage!**

**bsif\_LR.py 🡪** Image to stress/strain/slope using LR

**bsif\_RF.py 🡪** Image to stress/strain/slope using RF

**lr\_slope.py 🡪** Image to stress using RF then fed to LR for slope

**lr\_bsif\_all.py 🡪** Image to stress/strain/slope simultaneously

**bsif\_ml\_sss\_ml\_slope.py 🡪** Image to stress/strain/slope using K-Nearest Neighbors followed by LR to predict slope from predicted parameters.

**rf\_fuse\_slope.py 🡪** Image to predicted parameters using RF followed by merging with BSIF and fed to second RF, produces final slope prediction.