

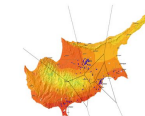
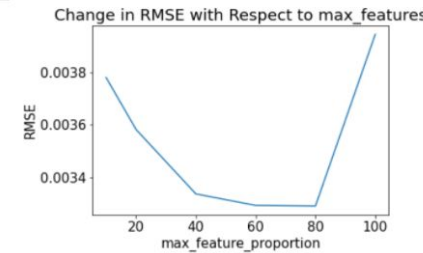
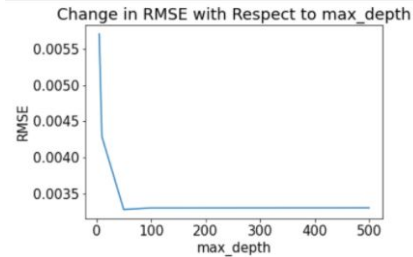
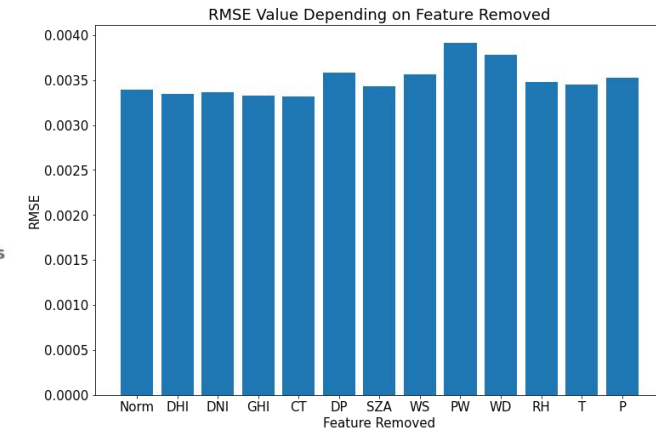
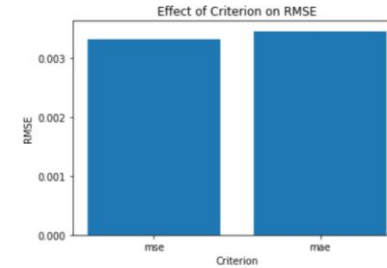
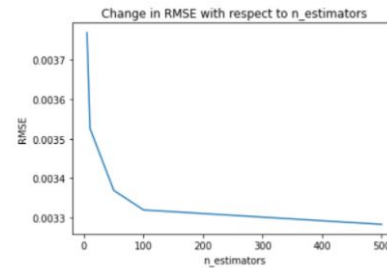
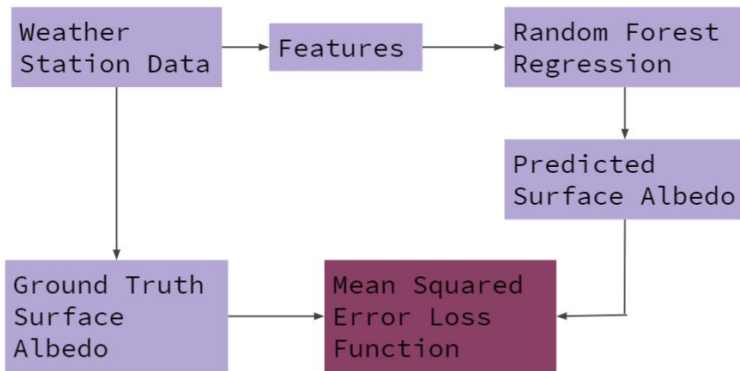
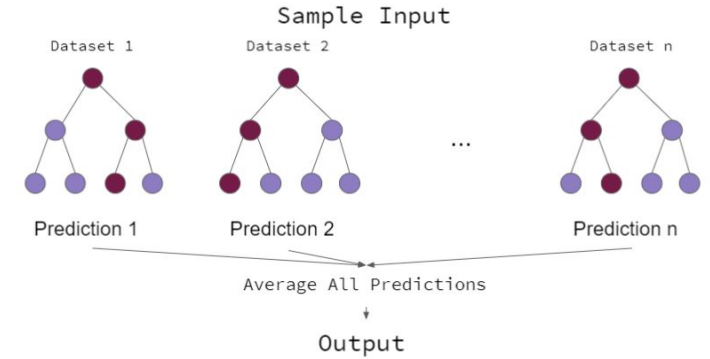
IRES Project: Surface Albedo Predictions Using Random Forest Regression

Srinidhi Budhiraju¹, Sameeksha Katoch², Dr. Andreas Spanias², Dr. Yiannis Tofis³

[1] Arizona State University Fulton School of Engineering [2] School of ECEE at Arizona State University [3] KIOS Center at University of Cyprus



- ★ Obtain weather data from the NSRDB dataset
- ★ Preprocess (one-hot encoding, scaling, train/test split) the data
- ★ Train the regressor to predict surface albedo using random forest regression
- ★ Calculate RMSE values using the ground truth surface albedo and the predicted surface albedo
- ★ Use feature removal to see the impact that each feature has on the surface albedo prediction



IRES project sponsored by NSF Award 1854273