

Tuning

The coarse tuning was performed using the "hyperparam_optimization" notebooks located under models/trad_ml. The results of each sweep are saved under sweep_results. This PDF file contains a summary of the hyperparameter values that proved effective during the coarse training and were subsequently used for the fine tuning. The fine-tuning process was again conducted in the "hyperparam_optimization" notebooks, and the results were also saved under sweep_results.

Logreg:

- Model:
 - max_iter: [10,20]
 - C: [0.001, 0.01,0.1]
 - Dif: False
 - class_weight: None
- Feature:
 - ma_alpha: [0.05, 0.1]
 - restart: False
 - min period: [1,5,10]
 - h2h_feature_cols: result_score
 - h2h_alpha: 0.1
 - pca_n_components: 0,925

XGB:

- Model
 - max_depth: [1, 3]
 - n_estimators: [100, 120]
 - learning_rate: [0.3,0.5]
 - dif: false
- Features
 - ma_alpha:0.05
 - ma_restart_each_season: False
 - ma_min_period: 1
 - h2h_alpha: 0.5
 - pca_n_components: 0.95
 - h2h_feature_cols: result_score

Random forest:

- Model
 - n_estimators: [150, 200]
 - max_depth: 10
 - min_samples_split: [5, 10]
 - dif: False

- Feature
 - `ma_alpha`: [0.05, 0.1]
 - `ma_min_periods`: [1, 3]
 - `ma_restart_each_season`: False
 - `h2h_alpha`: 0.5
 - `h2h_feature_cols`: `result_score`
 - `pca_n_components`: 0.52