



GBM Parameters: Spacing & Stopping

- **score_each_iteration**: score model after each tree (default: false)
- **score_tree_interval**: score model after n trees
- **stopping_rounds**: early stop if stopping metric's moving average does not improve for this many rounds
- **stopping_metric**: metric for early stopping (AUTO: logloss for classification, deviance for regression) Must be one of: "AUTO", "deviance", "logloss", "MSE", "RMSE", "MAE", "RMSLE", "AUC", "lift_top_group", "misclassification", "mean_per_class_error". Defaults to AUTO.
- **stopping_tolerance**: Relative tolerance for metric-based stopping criterion (stop if relative improvement is not at least this much) Defaults to 0.001.
- **max_runtime_secs**: maximum runtime to allow for model building (default: 0, disabled)

ISSUES RE

GBM Parameters: Cross Validation

(same as RF)

- **nfolds**: number of folds for N-fold cross-validation (default: 0, disabled)
- **keep_cross_validation_predictions**: keep the predictions of the cross-validation models (default: False)
- **keep_cross_validation_fold_assignment**: keep the cross-validation fold assignment (default: False)
- **fold_assignment**: cross-validation fold assignment scheme, if fold column is not specified. The "Stratified" option will stratify the folds based on the response variable, for classification problems. Must be one of: "AUTO", "Random", "Modulo", "Stratified". Defaults to AUTO.
- **fold_column**: column with cross-validation fold index assignment per observation.

GBM Parameters: Scoring & Stopping

(same as RF)

- **score_each_iteration**: score model after each tree (default: false)
- **score_tree_interval**: score model after n trees
- **stopping_rounds**: early stop if stopping metric's moving average does not improve for this many rounds
- **stopping_metric**: metric for early stopping (AUTO: logloss for classification, deviance for regression) Must be one of: "AUTO", "deviance", "logloss", "MSE", "RMSE", "MAE", "RMSLE", "AUC", "lift_top_group", "misclassification", "mean_per_class_error". Defaults to AUTO.
- **stopping_tolerance**: Relative tolerance for metric-based stopping criterion (stop if relative improvement is not at least this much) Defaults to 0.001.
- **max_runtime_secs**: maximum runtime to allow for model building (default: 0, disabled)