



GBMParameters: Class Imbalance

- **balance_classes**: balance training data class counts via over/under-sampling (default: False)
- **class_sampling_factors**: desired over/under-sampling ratios per class (in lexicographic order). If not specified, sampling factors will be automatically
- **max_after_balance_size**: maximum relative size of the training data after balancing class counts (can be less than 1.0). Requires balance classes. Defaults to 5.0.
- **sample_rate_per_class**: variable row sampling rate per class

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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)

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