

GBM Parameters: Ensemble

•	ntrees:	number of trees
•	sample_rate:	row sampling rate per tree (default:1)
•	col_sample_rate_per_tree:	column sampling rate per tree (default: 1)

(same as RF)



GBM Parameters: Individual Trees

- Column sampling for split:
- col_sample_rate: number of columns to sample on each split (default: sqrt(n) for classification, n/3 for regression)
- col_sample_rate_change_per_level: factor by which to increase or decrease mtries per level of tree
- When to stop splitting?
- max depth: maximum depth of each tree
- min_rows: minimum rows in a leaf (i.e. stop splitting when data size is this small)
- min_split_improvement: minimum relative improvement in split criterion for a split to occur
- Histogramming
- **nbins**: number of bins for numeric variables (default: 20)
- **nbins** top level: can be used instead of nbins; nbins will then decrease by 2 each level
- nbins_cats: histogram_type: number of bins for categorical variables (default: 1024)
- max_abs_leafnode_pred



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(same as RF)

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