
H2O.ai

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**

GBM Parameters: Boosting

- `learn_rate:` boosting factor, eta (default=0.1)
- `learn_rate_annealing:` factor by which to reduce the learn_rate every tree (default=1)

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