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)

GBM Parameters: Class Imbalances

(same as RF)

- **`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 fac- tors 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: Boosting

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