Parameters of H2OGridSearch

Affected Class

- `ai.h2o.sparkling.ml.algos.H2OGridSearch`

Parameters

- *Each parameter has also a corresponding getter and setter method. (E.g.:* `label` *->* `getLabel()` *,* `setLabel(...)` *)*

algo

Specifies the algorithm for grid search

Scala default value: `null` *; Python default value:* `None`

hyperParameters

Hyper Parameters

Scala default value: `Map()` *; Python default value:* `{}`

parallelism

Level of model-building parallelism, the possible values are:

- 0 -> H2O selects parallelism level based on cluster configuration, such as number of cores
- 1 -> Sequential model building, no parallelism
- n>1 -> n models will be built in parallel if possible

Default value: `1`

selectBestModelBy

Select best model by specific metric.If this value is not specified that the first model os taken.

Default value: `"AUTO"`

maxModels

Maximum number of models to build (optional).

Default value: `0`

maxRuntimeSecs

Maximum time to spend building models (optional).

Default value: `0.0`

seed

Seed for random number generator; set to a value other than -1 for reproducibility.

Scala default value: `-1L` *; Python default value:* `-1`

stoppingMetric

Metric to use for early stopping (AUTO: logloss for classification, deviance for regression). Possible values are `"AUTO"`, `"deviance"`, `"logloss"`, `"MSE"`, `"RMSE"`, `"MAE"`, `"RMSLE"`, `"AUC"`, `"AUCPR"`, `"lift_top_group"`, `"misclassification"`, `"mean_per_class_error"`, `"anomaly_score"`, `"custom"`, `"custom_increasing"`.

Default value: `"AUTO"`

stoppingRounds

Early stopping based on convergence of stopping_metric. Stop if simple moving average of length k of the stopping_metric does not improve for k:=stopping_rounds scoring events (0 to disable).

Default value: `0`

stoppingTolerance

Relative tolerance for metric-based stopping criterion (stop if relative improvement is not at least this much).

Default value: `0.001`

strategy

Hyperparameter space search strategy. Possible values are `"Unknown"`, `"Cartesian"`, `"RandomDiscrete"`, `"Sequential"`.

Default value: `"Cartesian"`