

GRID SEARCH CV API SUMMARY

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Grid search cross-validation is the process of performing hyperparameter tuning in order to determine the optimal values for a given model. The performance of a model significantly depends on the value of hyperparameters.

sklearn.model_selection.GridSearchCV

```
class sklearn.model_selection.GridSearchCV(estimator, param_grid, *,
scoring=None, n_jobs=None, refit=True, cv=None, verbose=0,
pre_dispatch='2*n_jobs', error_score=nan, return_train_score=False)
```

PARAMETERS:

- estimator: estimator object.
- param_grid: dict or list of dictionaries
- scoring: str, callable, list, tuple or dict, default=None
- n_jobs: int, default=None
- refit: bool, str, or callable, default=True
- cv: int, cross-validation generator or an iterable, default=None
- verbose: int
- pre_dispatch: int, or str, default=n_jobs
- error_score: 'raise' or numeric, default=np.nan
- return_train_score: bool, default=False

ATTRIBUTES:

- cv_results_: dict of numpy (masked) ndarrays
- best_estimator_: estimator
- best_score_: float
- best_params_: dict
- best_index_: int
- scorer_: function or a dict
- n_splits_: int
- refit_time_: float
- multimetric_: bool