```
In [99]: from sklearn.model_selection import GridSearchCV
         param grid = [
             # trv 12 (3×4) combinations of hyperparameters
             {'n_estimators': [3, 10, 30], 'max_features': [2, 4, 6, 8]},
             # then try 6 (2×3) combinations with bootstrap set as False
             {'bootstrap': [False], 'n_estimators': [3, 10], 'max_features': [2, 3, 4]},
         forest reg = RandomForestRegressor(random state=42)
         # train across 5 folds, that's a total of (12+6)*5=90 rounds of training
         grid_search = GridSearchCV(forest_reg, param_grid, cv=5,
                                     scoring='neg mean squared error'.
                                     return train score=True)
         grid search.fit(housing prepared, housing labels)
Out[99]: GridSearchCV(cv=5, estimator=RandomForestRegressor(random state=42).
                      param grid=[{'max features': [2, 4, 6, 8],
                                   'n estimators': [3, 10, 30]}.
                                  {'bootstrap': [False], 'max features': [2, 3, 4],
                                   'n estimators': [3, 10]}],
                      return train score=True, scoring='neg mean squared error')
```