Randomised search CV

#Randomized Search CV

5. Fit X train And Y train

rf random.fit(X train,y train)

1. Define all feature like below # Number of trees in random forest n estimators = [int(x) for x in np.linspace(start = 100, stop = 1200, num = 12)]# Number of features to consider at every split max_features = ['auto', 'sqrt'] # Maximum number of levels in tree $max_depth = [int(x) for x in np.linspace(5, 30, num = 6)]$ # max_depth.append(None) # Minimum number of samples required to split a node min_samples_split = [2, 5, 10, 15, 100] # Minimum number of samples required at each leaf node min_samples_leaf = [1, 2, 5, 10] 2. Create a RandomGrid # Create the random grid random_grid = {'n_estimators': n_estimators, 'max_features': max_features, 'max_depth': max_depth, 'min samples split': min samples split, 'min_samples_leaf': min_samples_leaf} print(random_grid) 3. Then create a model where you tune # First create the base model to tune rf = RandomForestRegressor() 4. Apply Randomised Search Cv # search across 100 different combinations rf_random = RandomizedSearchCV(estimator = rf, param_distributions = random_grid,scoring='neg_mean_squared_error', n_iter = 10, cv = 5, verbose=2, random_state=42, n jobs = 1