

List of ML APIs from sklearn and other modules.

Module	API
sklearn.feature_extraction	<ul style="list-style-type: none">- DictVectorizer- FeatureHasher
sklearn.feature_extraction.text	<ul style="list-style-type: none">- TfidfVectorizer
sklearn.feature_selection	<ul style="list-style-type: none">- VarianceThreshold- SelectKBest- SelectPercentile- GenericUnivariateSelect- mutual_info_regression- RFE- RFECV- SelectFromModel- SequentialFeatureSelector
sklearn.impute	<ul style="list-style-type: none">- SimpleImputer- KNNImputer- MissingIndicator
sklearn.preprocessing	<ul style="list-style-type: none">- StandardScaler- MinMaxScaler- MaxAbsScaler- FunctionTransformer- PolynomialFeatures- KBinsDiscretizer- OneHotEncoder- LabelEncoder- OrdinalEncoder- LabelBinarizer- MultiLabelBinarizer- add_dummy_feature
sklearn.compose	<ul style="list-style-type: none">- ColumnTransformer- TransformedTargetRegressor
sklearn.linear_model	<ul style="list-style-type: none">- LinearRegression- SGDRegression- Lasso, LassoCV- Ridge, RidgeCV- LogisticRegression, LogisticRegressionCV- SGDClassifier- RidgeClassifier, RidgeClassifierCV- Perceptron

Module	API
Sklearn.naive_bayes	- MultinomialNB
sklearn.ensemble	- RandomForestRegressor
sklearn.dummy	DummyRegressor, DummyClassifier
sklearn.datasets	<ul style="list-style-type: none"> - load_iris, load_wine, load_diabetes - fetch_california_housing, fetch_20_newsgroups - fetch_openml - make_regression - make_blobs - make_classification - make_multilabel_classification
sklearn.model_selection	<ul style="list-style-type: none"> - train_test_split - cross_validate - cross_val_score - cross_val_predict - learning_curve - validation_curve - ShuffleSplit - StratifiedShuffleSplit - permutation_test_score - GridSearchCV - RandomizedSearchCV
sklearn.metrics	<ul style="list-style-type: none"> - mean_squared_error - mean_absolute_error - mean_absolute_percentage_error - log_loss - hinge_loss - confusion_matrix - ConfusionMatrixDisplay - precision_score - recall_score - make_scorer - classification_report - precision_recall_curve - roc_curve - roc_auc_curve
sklearn.decomposition	- PCA
sklearn.pipeline	- make_pipeline

Module	API
	<ul style="list-style-type: none"> - Pipeline - FeatureUnion
sklearn.set_config	<ul style="list-style-type: none"> - set_config
sklearn.utils	<ul style="list-style-type: none"> - all_estimators
sklearn.utils.multiclass	<ul style="list-style-type: none"> - type_of_target
scipy.stats	<ul style="list-style-type: none"> - loguniform
imblearn.under_sampling	<ul style="list-style-type: none"> - RandomUnderSampler
imblearn.over_sampling	<ul style="list-style-type: none"> - RandomOverSampler - SMOTE
warnings	<ul style="list-style-type: none"> - filterwarnings
numpy	<ul style="list-style-type: none"> - array - arange - to_numpy - unique - zeros, ones - where - argmax - random.seed - random.permutation - count_nonzero - var, std
pandas	<ul style="list-style-type: none"> - DataFrame - read_csv - concat - get_dummies - var, std
pandas.plotting	<ul style="list-style-type: none"> - scatter_matrix
sns	<ul style="list-style-type: none"> - histplot - scatterplot - heatmap - set_style

List of object based APIs

Object	API/property/attribute
numpy array	<ul style="list-style-type: none">- shape- reshape- transpose, T- mean, median, var, std- ravel, unravel
DataFrame	<ul style="list-style-type: none">- head, tail- columns- loc, iloc- info, describe- insert, pop- copy- plot, boxplot- corr- drop, dropna- isna, isnull, notna, isna- reset_index- sum, mean, median, var, std- replace- transpose, T
Series	<ul style="list-style-type: none">- value_counts- hist- mean, median, var, std- unique- count- replace
Bunch	<ul style="list-style-type: none">- frame- data- target- target_names- feature_names
DictVectorizer, VarianceThreshold	<ul style="list-style-type: none">- fit, transform, fit_transform
SelectKBest SelectPercentile GenericUnivariateSelect RFE/RFECV SelectFromModel SequentialFeatureSelector	<ul style="list-style-type: none">- fit, transform, fit_transform- get_feature_names_out
SimpleImputer	<ul style="list-style-type: none">- fit, transform, fit_transform

Object	API/property/attribute
numpy array	<ul style="list-style-type: none"> - shape - reshape - transpose, T - mean, median, var, std - ravel, unravel
SimpleImputer	<ul style="list-style-type: none"> - statistics_ - median
PCA	<ul style="list-style-type: none"> - fit, transform, fit_transform - explained_variance
RandomUnderSampler RandomOverSampler SMOTE	<ul style="list-style-type: none"> - fit_resample
KNNImputer MissingIndicator	<ul style="list-style-type: none"> - fit, transform, fit_transform
StandardScaler, MinMaxScaler, MaxAbsScaler	<ul style="list-style-type: none"> - fit, transform, fit_transform
csr_matrix	<ul style="list-style-type: none"> - toarray- todense
DictVectorizer	<ul style="list-style-type: none"> - fit, transform, fit_transform
OrdinalEncoder, OneHotEncoder, LabelEncoder,	<ul style="list-style-type: none"> - fit, transform, fit_transform - categories_
LabelBinarizer, MultilabelBinarizer	<ul style="list-style-type: none"> - fit, transform, fit_transform - classes_
Pipeline	<ul style="list-style-type: none"> - fit, transform, fit_transform
FunctionTransformer, ColumnTransformer, PolynomialFeatures, KBinsDiscretizer	<ul style="list-style-type: none"> - fit, transform, fit_transform
TransformedTargetRegressor	<ul style="list-style-type: none"> - fit - predict
LinearRegression	<ul style="list-style-type: none"> - fit - predict
DecisionTreeRegressor	<ul style="list-style-type: none"> - fit

Object	API/property/attribute
numpy array	<ul style="list-style-type: none"> - shape - reshape - transpose, T - mean, median, var, std - ravel, unravel
RandomForestRegressor	<ul style="list-style-type: none"> - predict - feature_importances_
GridSearchCV RandomizedSearchCV	<ul style="list-style-type: none"> - fit - predict - cv_results_ (only after fit) - best_params_ - best_estimator_
StratifiedShuffleSplit	<ul style="list-style-type: none"> - split