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import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from typing import Tuple, List, Optional, Dict
from sklearn.model_selection import train_test_split, cross_val_score, GridSearchCV
from sklearn.preprocessing import StandardScaler, MinMaxScaler, RobustScaler,
PowerTransformer, OneHotEncoder, LabelEncoder
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.impute import SimpleImputer
from sklearn.pipeline import Pipeline
from sklearn.compose import ColumnTransformer
from sklearn.feature_selection import VarianceThreshold, SelectKBest, f_classif, f_regression, RFE
from sklearn.decomposition import PCA
from sklearn.linear_model import LogisticRegression, LinearRegression, LassoCV
from sklearn.svm import SVC, SVR
from sklearn.neighbors import KNeighborsClassifier, KNeighborsRegressor
from sklearn.tree import DecisionTreeClassifier, DecisionTreeRegressor
from sklearn.ensemble import RandomForestClassifier, RandomForestRegressor,
GradientBoostingClassifier, GradientBoostingRegressor
from sklearn.naive_bayes import GaussianNB
from sklearn.cluster import KMeans
from sklearn.metrics import (accuracy_score, precision_score, recall_score, f1_score,
roc_auc_score, roc_curve,
confusion_matrix, classification_report, mean_squared_error, mean_absolute_error, r2_score)

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pd.read_csv() pd.read_excel() pd.read_json() pd.read_html() pd.read_sql() pd.read_parquet() pd.read_pickle() np.loadtxt() np.genfromtxt() np.load() df.head() df.info() df.describe()	np.log() np.log1p() np.sqrt() np.cbrt() PowerTransformer() BoxCox() (from scipy.stats) df.corr() df.cov() sns.heatmap() SelectKBest() chi2() f_classif() mutual_info_classif()	MeanShift() mean_squared_error() mean_absolute_error() r2_score() mean_absolute_percentage_error() mean_squared_log_error() accuracy_score() precision_score() recall_score() f1_score() classification_report() confusion_matrix()
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df.isnull() df.isna() df.fillna() df.dropna() df.duplicated() df.drop_duplicates() df.replace() df.astype() SimpleImputer() KNNImputer() LabelEncoder() OneHotEncoder() OrdinalEncoder() ColumnTransformer() Pipeline() StandardScaler() MinMaxScaler() RobustScaler() MaxAbsScaler() Normalizer() PowerTransformer() QuantileTransformer() df.describe() df.quantile() np.percentile() zscore() (from scipy.stats) IsolationForest() LocalOutlierFactor() df.skew() mutual_info_regression() VarianceThreshold() SelectFromModel()	Lasso() / LassoCV() Ridge() ElasticNet() RandomForestClassifier() RandomForestRegressor() GradientBoostingClassifier() OneHotEncoder() LabelEncoder() OrdinalEncoder() pd.cut() pd.qcut() PolynomialFeatures() PowerTransformer() Normalizer() df['col'].dt.year df['col'].dt.month df['col'].dt.day LinearRegression() Ridge() Lasso() ElasticNet() SVR() DecisionTreeRegressor() RandomForestRegressor() GradientBoostingRegressor() KNeighborsRegressor() XGBRegressor()* LogisticRegression() SVC() KNeighborsClassifier() DecisionTreeClassifier() RandomForestClassifier()	GradientBoostingClassifier() GaussianNB() BernoulliNB() MultinomialNB() XGBClassifier() KMeans() AgglomerativeClustering() DBSCAN() roc_auc_score() roc_curve() train_test_split() cross_val_score() StratifiedKFold() KFold() GridSearchCV() RandomizedSearchCV() plt.plot() plt.scatter() plt.bar() plt.hist() plt.boxplot() plt.show() sns.heatmap() sns.pairplot() sns.countplot() sns.boxplot() sns.distplot() (deprecated) sns.histplot() sns.violinplot() sns.scatterplot() sns.lineplot()
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