Model	Classification	Regression	Both	Code Example
Logistic Regression	✅	❌	❌	`from sklearn.linear_model import LogisticRegression` `model = LogisticRegression()`
Linear Regression	❌	✅	❌	`from sklearn.linear_model import LinearRegression` `model = LinearRegression()`
Support Vector Machines (SVM)	✅	✅	❌	`from sklearn.svm import SVC, SVR` `model = SVC()` (classification) `model = SVR()` (regression)
Decision Tree	✅	✅	❌	`from sklearn.tree import DecisionTreeClassifier, DecisionTreeRegressor` `model = DecisionTreeClassifier()` (classification) `model = DecisionTreeRegressor()` (regression)
Random Forest	✅	✅	❌	`from sklearn.ensemble import RandomForestClassifier, RandomForestRegressor` `model = RandomForestClassifier()` (classification) `model = RandomForestRegressor()` (regression)
Gradient Boosting	✅	✅	❌	`from sklearn.ensemble import GradientBoostingClassifier, GradientBoostingRegressor` `model = GradientBoostingClassifier()` (classification) `model = GradientBoostingRegressor()` (regression)
k-Nearest Neighbors (k-NN)	✅	✅	❌	`from sklearn.neighbors import KNeighborsClassifier, KNeighborsRegressor` `model = KNeighborsClassifier()` (classification) `model = KNeighborsRegressor()` (regression)
Naive Bayes	✅	❌	❌	`from sklearn.naive_bayes import GaussianNB` `model = GaussianNB()`

Model	Classification	Regression	Both	Code Example
Ridge Regression	❌	✅	❌	`from sklearn.linear_model import Ridge` `model = Ridge()`
Lasso Regression	❌	✅	❌	`from sklearn.linear_model import Lasso` `model = Lasso()`
Elastic Net Regression	❌	✅	❌	`from sklearn.linear_model import ElasticNet` `model = ElasticNet()`
K-Means Clustering	❌	❌	✅	`from sklearn.cluster import KMeans` `model = KMeans()`
Principal Component Analysis (PCA)	❌	❌	✅	`from sklearn.decomposition import PCA` `model = PCA()`
Gaussian Mixture Models (GMM)	❌	❌	✅	`from sklearn.mixture import GaussianMixture` `model = GaussianMixture()`
Neural Networks (basic MLP)	✅	✅	❌	`from sklearn.neural_network import MLPClassifier, MLPRegressor` `model = MLPClassifier()` (classification) `model = MLPRegressor()` (regression)