✅ Top 10 Classification Algorithms in ML (with Code Examples)

#	Algorithm	Type	Use Case	Code Example
1	**Logistic Regression**	Linear	Binary classification	from sklearn.linear_model import LogisticRegression
2	**K-Nearest Neighbors (KNN)**	Instance-based	Pattern recognition	from sklearn.neighbors import KNeighborsClassifier
3	**Decision Tree**	Tree-based	Easy to interpret	from sklearn.tree import DecisionTreeClassifier
4	**Random Forest**	Ensemble (Bagging)	Robust & accurate	from sklearn.ensemble import RandomForestClassifier
5	**Support Vector Machine (SVM)**	Margin-based	High-dimensional data	from sklearn.svm import SVC
6	**Naive Bayes**	Probabilistic	Text classification	from sklearn.naive_bayes import GaussianNB
7	**Gradient Boosting**	Ensemble (Boosting)	High performance	from sklearn.ensemble import GradientBoostingClassifier
8	**XGBoost**	Ensemble (Boosting)	Kaggle favorite	from xgboost import XGBClassifier
9	**LightGBM**	Ensemble (Boosting)	Large datasets	from lightgbm import LGBMClassifier
10	**Neural Network (MLP)**	Deep Learning	Complex problems	from sklearn.neural_network import MLPClassifier