**1. Linear Models**

* **Logistic Regression**
* **Linear Discriminant Analysis (LDA)**

**2. Nearest Neighbors**

* **K-Nearest Neighbors (KNN)**

**3. Support Vector Machines (SVM)**

* **Linear SVM**
* **Non-Linear SVM (using kernel trick)**

**4. Decision Trees and Ensemble Methods**

* **Decision Tree**
* **Random Forest**
* **Gradient Boosting (e.g., XGBoost, LightGBM, CatBoost)**
* **AdaBoost**
* **Bagging (Bootstrap Aggregating)**

**5. Naive Bayes**

* **Gaussian Naive Bayes**
* **Multinomial Naive Bayes**
* **Bernoulli Naive Bayes**