| **Criteria** | **Random Forest** | **Gradient Boosting (XGBoost/LightGBM)** | **SVM** | **Logistic Regression** | **Linear Regression** | **K-Means** | **DBSCAN** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Performance** | 9 | 10 | 8 | 6 | 6 | 5 | 5 |
| **Training Time** | 7 | 8 | 5 | 9 | 9 | 9 | 5 |
| **Scalability** | 8 | 9 | 6 | 9 | 9 | 8 | 7 |
| **Handling Large Datasets** | 9 | 10 | 5 | 8 | 7 | 8 | 6 |
| **Handling Categorical Data** | 9 | 9 | 5 | 7 | 6 | 3 | 4 |
| **Handling Numerical Data** | 9 | 10 | 9 | 7 | 8 | 7 | 6 |
| **Interpretability** | 7 | 6 | 5 | 9 | 9 | 5 | 5 |
| **Tuning Complexity** | 8 | 6 | 5 | 7 | 7 | 8 | 6 |
| **Accuracy** | 9 | 10 | 7 | 6 | 7 | 5 | 5 |
| **Handling Missing Data** | 8 | 9 | 4 | 4 | 4 | 3 | 5 |
| **Handling Outliers** | 8 | 9 | 4 | 4 | 3 | 4 | 7 |
| **Handling Non-Linear Relationships** | 9 | 10 | 8 | 4 | 4 | 3 | 7 |
| **Flexibility (Classification & Regression)** | 9 | 10 | 6 | 5 | 7 | 4 | 4 |
| **Model Complexity** | 7 | 6 | 5 | 8 | 9 | 7 | 7 |

**Total Scores:**

* **Random Forest**: **117/140**
* **Gradient Boosting (XGBoost/LightGBM)**: **126/140**
* **SVM**: **82/140**
* **Logistic Regression**: **90/140**
* **Linear Regression**: **89/140**
* **K-Means**: **78/140**
* **DBSCAN**: **72/140**