Machine Learning Classification

1.What is the problem statement?

It is a Machine learning classification Problem.

2. is it a balanced dataset?

No, It is a imbalanced dataset.

3.How is the performance of the model

Recall :

|  |  |  |
| --- | --- | --- |
| Algorithm | Purchased | Not Purchased |
| Random forest Classifier | 88% | 94% |
| Decission Tree Classifier | 78% | 92% |
| SVM | 47% | 96% |
| Logistic Regression | 82% | 93% |

4.Whats is the total prediction including wrong ones?

Precision is 0.88 %

|  |  |  |
| --- | --- | --- |
| Algorithm | Purchased | Not Purchased |
| Random forest Classifier | 88% | 94% |
| Decission Tree Classifier | 84% | 88% |
| SVM | 88% | 76% |
| Logistic Regression | 87% | 90% |

5.What is the accuracy of the model?

|  |  |
| --- | --- |
| Algorithm | F1\_score/accuracy |
| Random forest Classifier | 92% |
| Decission Tree Classifier | 87% |
| SVM | 78% |
| Logistic Regression | 89% |

6.Which Algorithm Performs well?

Random Forest Classifier Performs well.