**For our best performance models considering :**

* **All features**
* **Cross Validation**
* **Missing Values**

A diagram of values

Description automatically generated

In our dataset we have

|  |  |
| --- | --- |
| Number of instances | Label (Type of Delivery) |
| 506 | 1 |
| 46 | 0 |

**1- RNN (LSTM)**

|  |  |
| --- | --- |
| Training Accuracy | Test Accuracy |
| 93.01% | 88.55% |

A graph of confusion matrix

Description automatically generated

**2- CNN**

|  |  |
| --- | --- |
| Training Accuracy | Test Accuracy |
| 93.01% | 88.55% |

A graph of a comparison of a number of labels

Description automatically generated with medium confidence

**3- XGBoost** (based LR, SVM, RF)

|  |  |
| --- | --- |
| Training Accuracy | Test Accuracy |
| 99.48 % | 97.59 % |

A blue squares with white text

Description automatically generated

**4- Random Forest**

|  |  |
| --- | --- |
| Training Accuracy | Test Accuracy |
| 100 % | 96.39 % |

A blue squares with white text

Description automatically generated

**5- SVM**

|  |  |
| --- | --- |
| Training Accuracy | Test Accuracy |
| 100 % | 95.78 % |

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Description automatically generated

**6- Logistic Regression**

|  |  |
| --- | --- |
| Training Accuracy | Test Accuracy |
| 99.74 % | 95.78 % |

