1. **Conclusion**

**Table 4**. Predicting yield% with New Data

|  |  |  |  |
| --- | --- | --- | --- |
| **Dataset 4** | True Value | Predicted Value | Difference (%) |
| 28.0 | 31.0 | 9.7 |
| 27.1 | 30.4 | 10.9 |
| 22.0 | 21.8 | -0.9 |
| 34.0 | 33.1 | -2.7 |
| 38.5 | 34.0 | -13.2 |
| **Dataset 1** | 28.0 | 30.4 | 7.9 |
| 27.1 | 33.6 | 19.3 |
| 22.0 | 21.7 | -1.4 |
| 34.0 | 36.3 | 6.3 |
| 38.5 | 28.4 | -35.6 |

The difference percentage is clearly shown the best dataset for the prediction of the bio crude oil yield.

Chart, line chart

Description automatically generated

By this graph we can see that dataset 1 is showing no difference of dataset 4 then dataset 1 is best dataset for predicting the oil yield.

Figure 6 Probability plot of the different cases validated against the predicted result.