**Sampling Techniques**

**S1:** Random Undersampling

**S2:** Random Oversampling

**S3:** Near Miss

**S4:** SMOTE

**S5:** ADASYN

**Models Implemented**

**M1:** Logistic Regression

**M2:** Decision tree

**M3**: Random Forest

**M4:** K-Nearest Neighbour

**M5:** Naive Bayes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **S1** | **S2** | **S3** | **S4** | **S5** |
| **M1** | **40** | **89.79** | **80** | **91.09** | **90.31** |
| **M2** | **80** | **99.21** | **60** | **98.42** | **98.69** |
| **M3** | **60** | **100** | **40** | **99.21** | **100** |
| **M4** | **80** | **98.42** | **40** | **84.03** | **82.72** |
| **M5** | **40** | **76.17** | **40** | **79.31** | **79.31** |

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| **Model** | **Best Sampling Technique** |
| Logistic Regression | SMOTE |
| Decision tree | Random Oversampling |
| Random Forest | SMOTE |
| K-Nearest Neighbour | Random Oversampling |
| Naive Bayes | SMOTE/ ADASYN |