1. Baseline Results (before mapping)

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| --- | --- | --- |
| Model | Accuracy(%) | Correct/Total |
| XGBoost | 66.98 | 351/524 |
| RF | 57.44 | 301/524 |
| MLP | 39.12 | 205/524 |
| LR | 25.95 | 136/524 |
| SVM | 38.55 | 202/524 |
| KNN | 36.64 | 192/524 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Accuracy(%) | Precision(%) | Recall(%) | F1 Score(%) | Correct/Total |
| XGBoost | 58.81 | 100 | 58.81 | 74.06 | 247/420 |
| RF | 46.90 | 100 | 46.9 | 63.86 | 197/420 |
| MLP | 24.05 | 100 | 24.05 | 38.77 | 101/420 |
| LR | 7.62 | 100 | 7.62 | 14.16 | 32/420 |
| SVM | 23.33 | 100 | 23.33 | 37.84 | 98/420 |
| KNN | 20.95 | 100 | 20.95 | 34.65 | 88/420 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Model** | **Accuracy(%)** | **Precision(%)** | **Recall(%)** | **F1 Score(%)** | **Correct/Total** |
| XGBoost | 100 | 37.55 | 100 | 54.59 | 104/104 |
| RF | 100 | 31.8 | 100 | 48.26 | 104/104 |
| MLP | 100 | 24.59 | 100 | 39.47 | 104/104 |
| LR | 100 | 21.14 | 100 | 34.90 | 104/104 |
| SVM | 100 | 24.41 | 100 | 39.25 | 104/104 |
| KNN | 100 | 23.85 | 100 | 38.52 | 104/104 |