|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Final Model** | Model 1 | Model 2 | Model 3? |
| **Ensemble method** | **RF** | RF | glm | RF |
| **Sampling** | **Cross validation with k-fold (5)** | Bootstrap 0.632 (with replacement) | Cross validation with k-fold (5) | Leave one out |
|  |  |  |  |  |
| **Training** |  |  |  |  |
| Accuracy | 0.9176471 | 0.905882 |  |  |
| Precision | 1 | 0.8636364 |  |  |
| Recall | 0.7083333 | 0.7916667 |  |  |
| F1-Score | 0.8292683 | 0.826087 |  |  |
|  |  |  |  |  |
| **Testing (Internal)** |  |  |  |  |
| Accuracy | 0.8571429 | 0.8095238 |  |  |
| Precision | 0.8 | 0.6 |  |  |
| Recall | 0.6666667 | 1 |  |  |
| F1-Score | 0.7272727 | 0.75 |  |  |
|  |  |  |  |  |
| **Testing (External)** |  |  |  |  |
| Accuracy | 0.6933333 |  |  |  |
| Precision | 0.7115385 |  |  |  |
| Recall | 0.8222222 |  |  |  |
| F1-Score | 0.7628866 |  |  |  |