|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.13% | 92.05% | 95.25% | 95.44% | 95.49% | 94.73% | 95.44% |
| Precision | 96% | 91.8% | 95.8% | 96.7% | 96.5% | 95.0% | 96.7% |
| Recall | 93.5% | 91.6% | 93.7% | 93.2% | 93.5% | 93.5% | 93.2% |
| Sensitivity | 93.5% | 91.6% | 93.7% | 93.2% | 93.5% | 93.5% | 93.2% |
| F1 Score | 94.7% | 91.7% | 94.7% | 94.9% | 94.9% | 94.2% | 94.9% |

**Mean for rplane:** 94.79

**Mean for gplane:** 94.55

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.08% | 92.37% | 95.19% | 95.44% | 95.44% | 92.95% | 95.40% |
| Precision | 96.3% | 92.2% | 95.8% | 96.7% | 96.3% | 94.8% | 96.6% |
| Recall | 93.1% | 92.0% | 93.4% | 93.2% | 93.4% | 89.5% | 93.1% |
| Sensitivity | 93.1% | 92.0% | 93.4% | 93.2% | 93.4% | 89.5% | 93.1% |
| F1 Score | 94.6% | 92.1% | 94.6% | 94.9% | 94.9% | 92.1% | 94.8% |

**Mean for bplane: 94.80**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.09% | 92.31% | 95.25% | 95.39% | 95.44% | 94.74% | 95.39% |
| Precision | 96.2% | 92.6% | 96.3% | 97.2% | 97.1% | 95.3% | 97.2% |
| Recall | 93.3% | 91.9% | 93.4% | 92.9% | 92.9% | 93.2% | 92.9% |
| Sensitivity | 93.3% | 91.9% | 93.4% | 92.9% | 92.9% | 93.2% | 92.9% |
| F1 Score | 94.7% | 92.3% | 94.8% | 95.0% | 95.0% | 94.2% | 95.0% |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 94.92% | 92.24% | 95.01% | 95.14% | 95.16% | 92.97% | 94.98% |
| Precision | 96.0% | 92.2% | 96.6% | 97.6% | 97.1% | 97.0% | 97.6% |
| Recall | 92.6% | 91.6% | 93.0% | 92.1% | 93.0% | 88.3% | 91.4% |
| Sensitivity | 92.6% | 91.6% | 93.0% | 92.1% | 93.0% | 88.3% | 91.4% |
| F1 Score | 94.3% | 91.9% | 94.7% | 94.8% | 95.0% | 92.4% | 94.4% |

**Standard Deviation for rplane:** 94.34

**Standard Deviation for gplane: 87.83**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 88.23% | 83.90% | 88.18% | 89.13% | 89.24% | 87.07% | 89.08% |
| Precision | 93.7% | 85.8% | 93.9% | 98% | 97.6% | 97.7% | 98.0% |
| Recall | 84.7% | 85.5% | 84.1% | 81.5% | 82.4% | 78.5% | 81.5% |
| Sensitivity | 84.7% | 85.5% | 84.1% | 81.5% | 82.4% | 78.5% | 81.5% |
| F1 Score | 89.0% | 85.7% | 88.7% | 89% | 89.3% | 87.1% | 89.0% |

**Standard Deviation for bplane: 94.28**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.03% | 92.09% | 95.09% | 95.16% | 95.27% | 92.51% | 94.86% |
| Precision | 96.2% | 91.2% | 96.5% | 97.4% | 97.1% | 97.1% | 97.5% |
| Recall | 92.9% | 91.5% | 92.8% | 91.9% | 92.7% | 87.1% | 91.3% |
| Sensitivity | 92.9% | 91.5% | 92.8% | 91.9% | 92.7% | 87.1% | 91.3% |
| F1 Score | 94.5% | 91.3% | 94.6% | 94.6% | 94.9% | 91.8% | 94.3% |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.11% | 91.99% | 95.13% | 95.16% | 95.13% | 92.69% | 94.99% |
| Precision | 96.5% | 90.5% | 96.9% | 97.6% | 97.1% | 96.8% | 97.6% |
| Recall | 92.9% | 91.5% | 93.1% | 92.2% | 93.0% | 87.8% | 91.5% |
| Sensitivity | 92.9% | 91.5% | 93.1% | 92.2% | 93.0% | 87.8% | 91.5% |
| F1 Score | 94.7% | 91.0% | 95.0% | 94.8% | 95.0% | 92.1% | 94.4% |

**Skewness for rplane:** 94.31

**Skewness for gplane: 96.29**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 99.04% | 98.80% | 98.31% | 94.99% | 95.17% | 93.09% | 94.63% |
| Precision | 98.5% | 98.5% | 97.6% | 97.9% | 97.7% | 97.6% | 97.4% |
| Recall | 99.3% | 98.8% | 99.0% | 91.3% | 92.2% | 88.3% | 91.3% |
| Sensitivity | 99.3% | 98.8% | 99.0% | 91.3% | 92.2% | 88.3% | 91.3% |
| F1 Score | 98.9% | 98.6% | 98.3% | 94.5% | 94.9% | 92.7% | 94.2% |

**Skewness for bplane: 95.32**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 96.49% | 94.85% | 96.28% | 95.23% | 96.01% | 93.34% | 95.05% |
| Precision | 97.2% | 95.1% | 97.1% | 97.6% | 97.4% | 97.2% | 97.5% |
| Recall | 95.7% | 95.2% | 95.2% | 91.9% | 92.9% | 88.6% | 92.3% |
| Sensitivity | 95.7% | 95.2% | 95.2% | 91.9% | 92.9% | 88.6% | 92.3% |
| F1 Score | 96.5% | 95.2% | 96.2% | 94.7% | 95.1% | 92.7% | 94.8% |

**Kurtosis for rplane: 94.30**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.06% | 92.14% | 95.01% | 95.16% | 95.31% | 92.50% | 94.97% |
| Precision | 96.2% | 91.8% | 96.6% | 97.6% | 97.1% | 96.8% | 97.6% |
| Recall | 92.8% | 91.2% | 92.9% | 92.1% | 93.1% | 87.4% | 91.5% |
| Sensitivity | 92.8% | 91.2% | 92.9% | 92.1% | 93.1% | 87.4% | 91.5% |
| F1 Score | 94.5% | 91.5% | 94.7% | 94.8% | 95.0% | 91.9% | 94.4% |

**Kurtosis for gplane: 94.12**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.08% | 91.96% | 94.99% | 94.79% | 95.21% | 92.43% | 94.44% |
| Precision | 96.5% | 91.9% | 96.8% | 97.9% | 97.2% | 97.3% | 97.9% |
| Recall | 92.9% | 91.5% | 92.4% | 91.0% | 92.0% | 87.5% | 90.3% |
| Sensitivity | 92.9% | 91.5% | 92.4% | 91.0% | 92.0% | 87.5% | 90.3% |
| F1 Score | 94.7% | 91.7% | 94.5 | 94.3% | 94.5% | 92.1% | 93.9% |

**Kurtosis for bplane: 94.25**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **RNN** | **Decision Tree** | **KNN (Feature Scaling)** | **Linear SVM** | **Kernel SVM (Feature Scaling)** | **Naïve Bayes** | **Logistic Regression** |
| Accuracy | 95.02% | 92.18% | 94.99% | 95.16% | 95.25% | 92.35% | 94.86% |
| Precision | 96.4% | 92.0% | 96.6% | 97.4% | 97.2% | 97.0% | 97.5% |
| Recall | 92.5% | 91.8% | 92.6% | 91.9% | 92.7% | 86.9% | 91.3% |
| Sensitivity | 92.5% | 91.8% | 92.6% | 91.9% | 92.7% | 86.9% | 91.3% |
| F1 Score | 94.4% | 91.9% | 94.6% | 94.6% | 94.9% | 91.7% | 94.3% |