

| I/P type | RF | SVM | XGB | DT | ANN | LSTM | LSTM-CNN |
|----------|---|---|---|---|---|--|---|
| 0 | | | | X_types[0] Accuracy: 0.8779301194161875 RMSE: 0.3493850037560364 R-squared: 0.5117157974300832 MAE: 0.12206988858381248 Confusion Matrix: [[943 191] [85 1042]] | | | |
| 1 | X_types[1] Accuracy: 0.9411388355726168 Jaccard Index: 0.8593272171253823 F1 Score: 0.924342185263158 Log Loss: 2.121571488700434 precision recall f1-score support 0 0.94 0.97 0.95 938 1 0.95 0.90 0.92 625 accuracy 0.94 0.94 0.94 1563 macro avg 0.94 0.93 0.94 1563 weighted avg 0.94 0.94 0.94 1563 [[909 29] [63 562]] | X_types[1] Accuracy: 0.9398592450415867 Jaccard Index: 0.8544885496183207 F1 Score: 0.9226973684218527 Log Loss: 2.167692526288878 precision recall f1-score support 0 0.93 0.97 0.95 938 1 0.95 0.90 0.92 625 accuracy 0.94 0.94 0.94 1563 macro avg 0.94 0.93 0.94 1563 weighted avg 0.94 0.94 0.94 1563 [[908 30] [64 561]] | X_types[1] Accuracy: 0.9385796545105566 Jaccard Index: 0.8541033434650456 F1 Score: 0.92111475408936 Log Loss: 2.213813643861322 precision recall f1-score support 0 0.93 0.96 0.95 938 1 0.94 0.90 0.92 625 accuracy 0.94 0.94 0.94 1563 macro avg 0.94 0.93 0.94 1563 weighted avg 0.94 0.94 0.94 1563 [[905 33] [63 562]] | X_types[1] Accuracy: 0.8995521433141395 RMSE: 0.3169350985388973 R-squared: 0.5814226012793176 MAE: 0.10044785668586052 Confusion Matrix: [[863 75] [82 543]] | RMSE: 0.4395658883325009 Percent Error: nan Absolute Error: 0.19321817018554063 MSE: 0.19321817018554063 R-squared: 0.19483837953091687 Adjusted R-squared: 0.1943225809271571 MAE: 0.19321817018554063 Accuracy : 80.67818298144593 % Confusion Matrix: [[706 232] [70 555]] | RMSE: 0.394625185425735 Percent Error: inf Absolute Error: 0.31474632928246227 MSE: 0.1557290369722957 R-squared: 0.35105977019501533 Adjusted R-squared: 0.35064404935593463 MAE: 0.31474632928246227 Accuracy : 76.13563659628919 % Confusion Matrix: [[643 295] [78 547]] | RMSE: 0.2781948375779003 Percent Error: inf Absolute Error: 0.1597698336933851 MSE: 0.07739236765499433 R-squared: 0.6774973901616139 Adjusted R-squared: 0.6607750326144384 MAE: 0.1597698336933851 Accuracy : 89.1234804862444 % Confusion Matrix: [[833 105] [65 560]] |
| 2 | | | | X_types[2] Accuracy: 0.8699090402476781 RMSE: 0.368508884422523 R-squared: 0.47987117552314944 MAE: 0.13003095975232198 Confusion Matrix: [[947 187] [107 1026]] | | | |
| 3 | X_types[3] Accuracy: 0.9217160548429898 Jaccard Index: 0.854080791426216 F1 Score: 0.9212983548243664 Log Loss: 2.0216393851719315 precision recall f1-score support 0 0.92 0.92 0.92 1134 1 0.92 0.92 0.92 1127 accuracy 0.92 0.92 0.92 2261 macro avg 0.92 0.92 0.92 2261 weighted avg 0.92 0.92 0.92 2261 [[1048 86] [91 1036]] | X_types[3] Accuracy: 0.9239274657231313 Jaccard Index: 0.857379767827529 F1 Score: 0.9232142857142858 Log Loss: 2.7419289379071873 precision recall f1-score support 0 0.92 0.93 0.92 1134 1 0.93 0.91 0.92 1127 accuracy 0.92 0.92 0.92 2261 macro avg 0.92 0.92 0.92 2261 weighted avg 0.92 0.92 0.92 2261 [[1055 79] [93 1034]] | X_types[3] Accuracy: 0.9221583370190182 Jaccard Index: 0.8539419087136929 F1 Score: 0.9212175470008952 Log Loss: 2.085697019718902 precision recall f1-score support 0 0.92 0.93 0.92 1134 1 0.93 0.91 0.92 1127 accuracy 0.92 0.92 0.92 2261 macro avg 0.92 0.92 0.92 2261 weighted avg 0.92 0.92 0.92 2261 [[1051 83] [130 997]] | X_types[3] Accuracy: 0.8881026094648385 RMSE: 0.3345106732754 R-squared: 0.552406147644243 MAE: 0.11189739853516143 Confusion Matrix: [[1011 123] [130 997]] | RMSE: 0.3126409456585232 Percent Error: nan Absolute Error: 0.09774436090225563 MSE: 0.09774436090225563 R-squared: 0.6090188088117695 Adjusted R-squared: 0.6088457317019031 MAE: 0.09774436090225563 Accuracy : 90.22556390977444 % Confusion Matrix: [[1051 83] [138 989]] | RMSE: 0.2573643384567369 Percent Error: inf Absolute Error: 0.12799681992705414 MSE: 0.06623640270927382 R-squared: 0.7350518496182874 Adjusted R-squared: 0.734934564027149 MAE: 0.12799681992705414 Accuracy : 91.19858469703671 % Confusion Matrix: [[1073 61] [138 989]] | RMSE: 0.3142189612827913 Percent Error: inf Absolute Error: 0.20001457988974267 MSE: 0.09873355562963629 R-squared: 0.6050619919759097 Adjusted R-squared: 0.5981270156981342 MAE: 0.20001457988974267 Accuracy : 85.49314462627157 % Confusion Matrix: [[1002 132] [196 931]] |
| 4 | X_types[4] Accuracy: 0.9455992923405184 Jaccard Index: 0.890202316455696 F1 Score: 0.9452683471295061 Log Loss: 1.9688002507126983 precision recall f1-score support 0 0.94 0.95 0.95 1134 1 0.95 0.94 0.95 1127 accuracy 0.95 0.95 0.95 2261 macro avg 0.95 0.95 0.95 2261 weighted avg 0.95 0.95 0.95 2261 [[1076 58] [65 1062]] | X_types[4] Accuracy: 0.9402919062361786 Jaccard Index: 0.87123745819398 F1 Score: 0.9401868872270714 Log Loss: 2.152097836148083 precision recall f1-score support 0 0.94 0.94 0.94 1134 1 0.94 0.94 0.94 1127 accuracy 0.94 0.94 0.94 2261 macro avg 0.94 0.94 0.94 2261 weighted avg 0.94 0.94 0.94 2261 [[1065 69] [66 1061]] | X_types[4] Accuracy: 0.9442724458204335 Jaccard Index: 0.8944723618090452 F1 Score: 0.9442970822281167 Log Loss: 2.008624647071544 precision recall f1-score support 0 0.95 0.94 0.94 1134 1 0.94 0.95 0.94 1127 accuracy 0.94 0.94 0.94 2261 macro avg 0.94 0.94 0.94 2261 weighted avg 0.94 0.94 0.94 2261 [[1067 57] [59 1060]] | X_types[4] Accuracy: 0.9004865103936311 RMSE: 0.3154575876506521 R-squared: 0.6819422261658287 MAE: 0.09951340960636887 Confusion Matrix: [[1020 114] [111 1010]] | RMSE: 0.4232307660029738 Percent Error: nan Absolute Error: 0.17912428129146396 MSE: 0.17912428129146396 R-squared: 0.28349600709840165 Adjusted R-squared: 0.2831788295894604 MAE: 0.17912428129146396 Accuracy : 82.08757187085361 % Confusion Matrix: [[1075 59] [346 781]] | RMSE: 0.3670128847392833 Percent Error: inf Absolute Error: 0.26189392362119206 MSE: 0.13469845756465043 R-squared: 0.4612010053192849 Adjusted R-squared: 0.46096249314811144 MAE: 0.26189392362119206 Accuracy : 81.02609464838567 % Confusion Matrix: [[865 269] [160 967]] | RMSE: 0.27734570128981056 Percent Error: inf Absolute Error: 0.1782173729708678 MSE: 0.07692063802393684 R-squared: 0.6923144987194499 Adjusted R-squared: 0.6811695401677932 MAE: 0.1782173729708678 Accuracy : 89.47368421052632 % Confusion Matrix: [[1009 125] [113 1014]] |