| Benign = 630 | Reveton = 948 | 23 attribute are binary values and 24th is class label |
| Cerber = 897 | | Total Samples = 5866 |
| Locky = 944 | Yakes = 924 | |

Accuracy = Number of correct prediction /total no of prediction *100
recall = True positive /True positive+False negative
f1 score = 2 / (1/precision +1/recall)  ~combine precision and recall score of model

| Models | RNB | | | | KNN | | | | RF | | | | LSTM | | | | Bi-LSTM | | | | ANN | | | | SVM | | | | NEURAL NETWORK | | | | D | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Family | Accuracy | Precision | recall | f1-score | Accuracy | Precision | recall | f1-score | Accuracy | Precision | recall | f1-score | Accuracy | precision | recall | f1-score | Accuracy | precision | recall | f1-score | Accuracy | Precision | recall | f1-score | Accuracy | Precision | recall | f1-score | Accuracy | Precision | recall | f1-score | Accuracy | Precision | recall | f1-score |
| Benign | 0.7690 | 0.6629 | 0.7022 | 0.6820 | 0.8885 | 0.9218 | 0.3522 | 0.5108 | 0.9201 | 0.8800 | 0.4782 | 0.6497 | 0.8680 | 0.8783 | 0.8680 | 0.8677 | 0.8767 | 0.8801 | 0.8767 | 0.8766 | 0.9131 | 0.9134 | 0.9072 | 0.9092 | 0.8687 | 0.6979 | 0.7976 | 0.7444 | 0.9311 | 0.8987 | 0.8452 | 0.8711 | | | | |
| Cerber | 0.7690 | 0.9829 | 0.8737 | 0.9251 | 0.8885 | 0.9782 | 0.6228 | 0.7611 | 0.9201 | 0.8926 | 0.6976 | 0.8162 | 0.8678 | 0.8689 | 0.8679 | 0.8666 | 0.8757 | 0.8780 | 0.8757 | 0.8752 | 0.1954 | 0.0325 | 0.1666 | 0.0545 | 0.8687 | 0.9637 | 0.8593 | 0.9514 | 0.9311 | 0.9552 | 0.9606 | 0.9624 | | | | |
| Locky | 0.7690 | 0.7224 | 0.9911 | 0.8058 | 0.8885 | 0.8160 | 0.7004 | 0.7520 | 0.9201 | 0.8173 | 0.8126 | 0.8154 | 0.8648 | 0.8656 | 0.8648 | 0.8637 | 0.8747 | 0.8760 | 0.8747 | 0.8743 | 0.9131 | 0.9134 | 0.9072 | 0.9092 | 0.8687 | 0.7777 | 0.9323 | 0.8484 | 0.9311 | 0.8407 | 0.9388 | 0.8871 | | | | |
| Reveton | 0.7690 | 0.7295 | 0.6278 | 0.6744 | 0.9119 | 1.0000 | 0.6567 | 0.7913 | 0.9201 | 0.8367 | 0.8495 | 0.8869 | 0.8678 | 0.8692 | 0.8679 | 0.8667 | 0.8727 | 0.8765 | 0.8727 | 0.8726 | 0.9111 | 0.9116 | 0.9033 | 0.9060 | 0.8687 | 0.9050 | 0.8162 | 0.8628 | 0.9311 | 0.9375 | 0.8918 | 0.9141 | | | | |
| trdcrypt | 0.7690 | 0.6855 | 0.9565 | 0.8000 | 0.8885 | 0.9709 | 0.6072 | 0.7472 | 0.9201 | 0.8680 | 0.7081 | 0.8170 | 0.8680 | 0.8720 | 0.8690 | 0.8680 | 0.8727 | 0.8758 | 0.8727 | 0.8733 | 0.9131 | 0.9134 | 0.9072 | 0.9092 | 0.8687 | 0.9157 | 0.9456 | 0.9304 | 0.9311 | 0.9326 | 0.9728 | 0.9473 | | | | |
| Yakes | 0.7690 | 0.8584 | 0.5000 | 0.6219 | 0.8885 | 0.8219 | 0.6652 | 0.7353 | 0.9201 | 0.8314 | 0.7025 | 0.8089 | 0.8680 | 0.8701 | 0.8680 | 0.8676 | 0.8737 | 0.8786 | 0.8757 | 0.8755 | 0.9151 | 0.9171 | 0.9091 | 0.9119 | 0.8687 | 0.8758 | 0.7262 | 0.8000 | 0.9311 | 0.9074 | 0.9076 | 0.8546 | | 0.9976 | | 0.8546 |
| AVERAGE | 0.7690 | 0.7739 | 0.7617 | 0.7532 | 0.8924 | 0.9181 | 0.6006 | 0.7166 | 0.9201 | 0.9195 | 0.6833 | 0.7785 | 0.8680 | 0.8702 | 0.8680 | 0.8667 | 0.8749 | 0.8775 | 0.8749 | 0.8746 | 0.7035 | 0.7669 | 0.7034 | 0.7667 | 0.8687 | 0.8576 | 0.8613 | 0.8562 | 0.9311 | 0.9103 | 0.9043 | 0.9060 | | | | |