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| --- | --- | --- | --- |
| RANDOM FOREST | VOTING CLASSIFIER | STACKING | BOOSTING ENSEMBLE |
| precision recall f1-score support  1 0.96 0.98 0.97 58871  2 0.70 0.90 0.79 44525  3 0.91 0.82 0.86 24246  4 0.63 0.33 0.44 16353  5 0.76 0.82 0.79 13987  6 1.00 0.23 0.37 2677  7 1.00 0.15 0.26 2329  8 1.00 0.50 0.66 1511  9 1.00 0.79 0.88 174  accuracy 0.83 164673  macro avg 0.88 0.61 0.67 164673  weighted avg 0.83 0.83 0.81 164673 | precision recall f1-score support  1 0.97 0.96 0.96 58871  2 0.78 0.65 0.71 44525  3 0.87 0.75 0.81 24246  4 0.38 0.67 0.48 16353  5 0.63 0.70 0.66 13987  6 0.88 0.21 0.34 2677  7 0.20 0.22 0.21 2329  8 0.48 0.21 0.29 1511  9 0.91 0.48 0.63 174  accuracy 0.76 164673  macro avg 0.68 0.54 0.57 164673  weighted avg 0.80 0.76 0.77 164673 | precision recall f1-score support  1 0.94 0.96 0.95 58871  2 0.60 0.90 0.72 44525  3 0.89 0.73 0.80 24246  4 0.50 0.08 0.14 16353  5 0.63 0.68 0.65 13987  6 0.95 0.17 0.29 2677  7 0.68 0.01 0.02 2329  8 1.00 0.00 0.00 1511  9 0.94 0.17 0.29 174  accuracy 0.76 164673  macro avg 0.79 0.41 0.43 164673  weighted avg 0.77 0.76 0.73 164673 | precision recall f1-score support  1 1.00 0.98 0.99 58871  2 0.89 0.99 0.94 44525  3 0.95 0.84 0.90 24246  4 0.65 0.90 0.76 16353  5 0.99 0.83 0.90 13987  6 1.00 0.23 0.38 2677  7 0.98 0.15 0.27 2329  8 0.94 0.52 0.67 1511  9 0.99 0.87 0.93 174  accuracy 0.91 164673  macro avg 0.93 0.70 0.75 164673  weighted avg 0.93 0.91 0.91 164673 |
|  |  |  | precision recall f1-score support  0 0.98 0.94 0.96 93000  1 0.97 0.99 0.98 164673  accuracy 0.97 257673  macro avg 0.97 0.96 0.97 257673  weighted avg 0.97 0.97 0.97 257673 |