| Classifier | Vectorizer | TP | FN | FP | TN | AUC_Score | Test_Score | ROC_AUC_Test | Training_Score | ROC_AUC_Training | Duration_Mins |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Keras Classifier Layer: 384 | Count Vectorizer | 122294 | 37107 | 34479 | 124469 | 0.888274 | 0.775134 | 0.775145 | 0.808156 | 0.808159 | 32.754195 |
| MLP Classifier Layer: 384 | Count Vectorizer | 120470 | 38931 | 34737 | 124211 | 0.887525 | 0.768594 | 0.768612 | 0.803202 | 0.803207 | 1293.672127 |
| Keras Classifier Layer: 384 | Tfidf Vectorizer | 122055 | 37346 | 32828 | 126120 | 0.877933 | 0.779569 | 0.779589 | 0.797137 | 0.797143 | 29.777736 |
| MLP Classifier Layer: 384 | Tfidf Vectorizer | 122958 | 36443 | 34732 | 124216 | 0.875306 | 0.776425 | 0.776432 | 0.790858 | 0.790860 | 1781.875342 |
| Logistic Regression | Tfidf Vectorizer | 117805 | 41596 | 33141 | 125807 | 0.844782 | 0.765236 | 0.765273 | 0.764608 | 0.764619 | 150.749775 |
| Logistic Regression | Count Vectorizer | 115709 | 43692 | 31126 | 127822 | 0.839439 | 0.764981 | 0.765037 | 0.763785 | 0.763801 | 221.821038 |
| LGBM Classifier - Bayesian Optimization | Count Vectorizer | 117188 | 42213 | 32999 | 125949 | 0.839370 | 0.763744 | 0.763784 | 0.763266 | 0.763277 | 0.533199 |
| LGBM Classifier - Bayesian Optimization | Tfidf Vectorizer | 110369 | 49032 | 29867 | 129081 | 0.837715 | 0.752162 | 0.752247 | 0.755434 | 0.755459 | 0.626383 |
| LGBM Classifier | Tfidf Vectorizer | 112899 | 46502 | 32720 | 126228 | 0.831921 | 0.751147 | 0.751208 | 0.751091 | 0.751109 | 0.589967 |
| LGBM Classifier | Count Vectorizer | 112406 | 46995 | 32518 | 126430 | 0.829899 | 0.750233 | 0.750297 | 0.749437 | 0.749456 | 0.782862 |
| unigrams and bigrams | Count Vectorizer | 0 | 0 | 0 | 0 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.669744 |
| unigrams and bigrams | Tfidf Vectorizer | 0 | 0 | 0 | 0 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 1.045181 |
| Bayesian Optimization | Tfidf Vectorizer | 0 | 0 | 0 | 0 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 76.871454 |
| Bayesian Optimization | Count Vectorizer | 0 | 0 | 0 | 0 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 90.425354 |
| Keras Tuning | Tfidf Vectorizer | 0 | 0 | 0 | 0 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 68.465076 |