0.78422

0.81434

0.7979

0 83333

0.83584

0.84238

0.84182

0.82766

0.83339

0.84249

0.8388

0.83728

0.84579

0.83792

0.8315

0.83826

117.8 0.86244 0.77974 0.90647

0.8428

Features Counter with 2-gram and tf-idf

Average

155.4820635

1139.8

1585.2

356.2

118.8 0.85156 0.76197

0.9056

0.82758

Average

107.5208167

1140.8

1619

322.4

25000 Maximum criterion gini criterion entropy max dept 100 max deptl 100 Feature number Time to train TP **Accuracy Precision Recall** Feature number Time to train TP Accuracy Precision Recall F1-Score 111 0.84625 0.74515 0.90939 0.81912 185 0.84906 0.78152 0.85212 0.8153 39527 429.4031811 1114 1594 381 39527 91.57152629 1066 1651 298 0.83438 0.75736 0.85443 0.74179 2 39527 419.2259033 1080 1590 346 184 0.80297 39527 92.02545428 994 1659 346 201 0.82906 0.8318 260.6240873 324 0.86438 0.78064 0.91291 88.18855762 0.84625 0.77962 0.85229 3 39527 1153 1613 110 0.84161 39527 1079 1629 305 187 39527 93.09207344 1103 1563 388 146 0.83313 0.73977 0.88311 0.80511 39527 94.66225863 1064 1597 311 228 0.83156 0.77382 0.82353 5 39527 102.1296356 1084 1555 353 208 0.82469 0.75435 0.83901 0.79443 5 39527 85.87591124 1120 1632 279 169 0.86 0.80057 0.86889 Average 260.8949761 1106.8 1583 358.4 151.8 0.84056 0.75545 0.87977 0.81265 Average 90.46474161 1064.6 1633.6 307.8 194 0.84319 0.77547 0.84573 0.80902 criterion entropy criterion gini 200 max dept 200 max deptl Feature number Time to train TP FP Accuracy Precision Recall F1-Score Feature number Time to train TP TN FP FN Accuracy Precision Recall F1-Score 115 0.86844 0.79198 0.91016 0.84696 39527 137.3900383 1162 1540 378 120 0.84438 0.75455 0.9064 0.82353 39527 103.6855941 1165 1614 306 0.83781 0.73924 0.90503 0.81378 104 0.86625 0.77763 0.91593 0.84113 2 39527 132.9106324 1134 1547 400 119 39527 106.8156304 1133 1639 324 39527 132.3292778 1172 1568 351 109 0.85625 0.76953 0.91491 0.83595 39527 103.9283895 1110 1654 297 139 0.86375 0.78891 0.88871 3 39527 114.8673561 1128 1611 356 105 0.85594 0.76011 0.91484 0.83033 39527 108.5672193 1149 1621 320 110 0.86563 0.78216 0.91263 365 39527 132.3715451 1119 1591 125 0.84688 0.75404 0.89952 0.82038 39527 104.0673733 1150 1621 311 118 0.86594 0.78713 0.90694 5 5 Average 129.9737699 1143 1571.4 370 115.6 0.84825 0.75549 0.90814 0.82479 105.4128413 1141.4 1629.8 311.6 117.2 0.866 0.78556 0.90687 Average criterion aini criterion entropy max\_dept 400 max deptl 400 Feature number Time to train TP TN FP **Accuracy Precision Recall** F1-Score Feature number Time to train TP TN Accuracy Precision Recall F1-Score 132.86023 131 0.84531 0.75668 0.89628 0.82059 107.7346308 123 0.85469 0.77108 0.90353 0.83207 39527 1132 1573 364 39527 1152 1583 342 2 39527 133.6318045 1125 1598 365 112 0.85094 0.75503 0.90946 0.82508 39527 107.9468927 1112 1669 302 117 0.86906 0.78642 0.9048 0.84147 3 39527 138.7623982 1162 1547 370 121 0.84656 0.75849 0.90569 0.82558 39527 102.2973237 1124 1626 306 144 0.85938 0.78601 0.88644 0.83321 3 4 39527 160.9456882 1153 1585 357 105 0.85563 0.76358 0.91653 0.83309 39527 109.0716522 1119 1615 326 140 0.85438 0.77439 0.8888 1136 1578 370 116 0.84813 0.75432 0.90735 0.82379 101.5984204 1133 1614 324 129 0.85844 0.77763 0.89778 5 39527 150.1404922 5 39527 Average 143.2681226 1141.6 1576.2 365.2 117 0.84931 0.75762 0.90706 0.82562 Average 105.729784 1128 1621.4 320 130.6 0.85919 0.77911 0.89627 0.83356 criterion aini criterion entropy max dept 600 max deptl 600 Feature number Time to train TP Feature number Time to train TP FP Accuracy Precision Recall Accuracy Precision Recall 158.0925345 1600 97 0.85063 0.74651 0.92043 0.82439 114.749965 148 0.85219 0.7754 0.88346 0.82591 39527 1122 381 39527 1122 1605 325 2 39527 151.3102052 1150 1584 377 89 0.85438 0.75311 0.92817 0.83153 39527 105.3174195 1110 1657 317 116 0.86469 0.77786 0.90538 0.83679 39527 157.8437214 1180 1529 369 122 0.84656 0.76178 0.9063 0.82778 39527 107.0216668 1161 1595 317 127 0.86125 0.78552 0.9014 0.83948 3 3 39527 157.46083 1121 1583 372 124 0.845 0.75084 0.9004 0.81885 39527 106.5190003 1142 1631 321 106 0.86656 0.78059 0.91506 1562 350 88 0.86313 0.77419 0.93168 0.85 0.76086 0.90325 0.82596 5 39527 154 000463 1200 0.84567 5 39527 110 5286832 1139 1581 358 122 155.7415508 1154.6 1571.6 369.8 104 0.85194 0.75729 0.91739 0.82964 108.8273469 1134.8 1613.8 327.6 123.8 0.85894 0.77604 0.90171 0.83413 Average Average criterion gini criterion entropy max deptl MAX (~800) max deptl MAX(~800) Feature number Time to train TP TN **Accuracy Precision Recall** Feature number Time to train TP Accuracy Precision Recall 153.7395298 0.855 0.77326 0.90909 0.83569 108.3459818 135 0.86188 0.78929 0.89494 39527 1180 1556 346 118 39527 1150 1608 307 166.029485 1138 1540 393 0.83688 0.74331 0.89818 0.81344 105.8573973 1132 1628 0.8625 0.77961 0.90415 2 39527 129 39527 320 120 0.855 0.76539 39527 147.8999882 1119 1617 343 121 0.90242 0.82828 39527 108.5925591 1160 1617 312 111 0.86781 0.78804 0.91267 3 3 187.4034297 1614 346 107.6706195 1127 1637 120 0.86375 0.78101 0.90377 39527 1122 118 0.855 0.76431 0.90484 0.82866 39527 316 122 3378849 1140 1599 353 108 0.85594 0.76356 0.91346 0.83181 39527 107 1375256 1135 1605 357 103 0.85625 0.76072 5 39527 5 0.9168