

AUC-cross

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|----------|--------|-----------|-----------|---------|------------|-------|-------|-------|---------|
| activemq | 0.830 | 0.810 | 0.765 | 0.760 | 0.760 | 0.620 | 0.650 | 0.780 | 0.560 |
| camel | 0.781 | 0.790 | 0.820 | 0.710 | 0.740 | 0.640 | 0.640 | 0.760 | 0.480 |
| derby | 0.836 | 0.840 | 0.795 | 0.720 | 0.720 | 0.600 | 0.690 | 0.800 | 0.620 |
| groovy | 0.834 | 0.830 | 0.780 | 0.720 | 0.720 | 0.590 | 0.660 | 0.800 | 0.640 |
| hbase | 0.720 | 0.680 | 0.800 | 0.620 | 0.640 | 0.590 | 0.590 | 0.660 | 0.510 |
| hive | 0.766 | 0.770 | 0.785 | 0.670 | 0.690 | 0.620 | 0.640 | 0.710 | 0.480 |
| jruby | 0.878 | 0.880 | 0.775 | 0.660 | 0.730 | 0.640 | 0.660 | 0.660 | 0.540 |
| lucene | 0.748 | 0.710 | 0.805 | 0.630 | 0.650 | 0.600 | 0.550 | 0.660 | 0.560 |
| wicket | 0.807 | 0.800 | 0.760 | 0.760 | 0.780 | 0.650 | 0.650 | 0.800 | 0.480 |
| Average | 0.800 | 0.790 | 0.787 | 0.694 | 0.714 | 0.617 | 0.637 | 0.737 | 0.541 |
| | PLEASE | BARLineDP | BAFLineDP | LineDef | DeepLineDP | BoW | DBN | CNN | Bi-LSTM |

MCC-cross

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|----------|--------|-----------|-----------|---------|------------|-------|-------|-------|---------|
| activemq | 0.294 | 0.280 | 0.205 | 0.160 | 0.140 | 0.110 | 0.100 | 0.070 | -0.010 |
| camel | 0.199 | 0.170 | 0.215 | 0.120 | 0.130 | 0.080 | 0.080 | 0.050 | 0.000 |
| derby | 0.308 | 0.310 | 0.208 | 0.140 | 0.130 | 0.100 | 0.140 | 0.040 | 0.000 |
| groovy | 0.274 | 0.280 | 0.220 | 0.150 | 0.110 | 0.170 | 0.120 | 0.080 | -0.010 |
| hbase | 0.182 | 0.190 | 0.204 | 0.120 | 0.080 | 0.080 | 0.060 | 0.050 | -0.020 |
| hive | 0.236 | 0.240 | 0.210 | 0.150 | 0.140 | 0.090 | 0.090 | 0.020 | -0.020 |
| jruby | 0.246 | 0.250 | 0.207 | 0.090 | 0.060 | 0.020 | 0.080 | 0.040 | -0.030 |
| lucene | 0.083 | 0.070 | 0.225 | 0.060 | 0.090 | 0.020 | 0.030 | 0.010 | -0.020 |
| wicket | 0.186 | 0.160 | 0.202 | 0.110 | 0.130 | 0.040 | 0.100 | 0.030 | 0.000 |
| Average | 0.223 | 0.217 | 0.211 | 0.122 | 0.112 | 0.079 | 0.089 | 0.043 | -0.012 |
| | PLEASE | BARLineDP | BAFLineDP | LineDef | DeepLineDP | BoW | DBN | CNN | Bi-LSTM |

BA-cross

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|----------|--------|-----------|-----------|---------|------------|-------|-------|-------|---------|
| activemq | 0.656 | 0.640 | 0.630 | 0.650 | 0.630 | 0.570 | 0.570 | 0.540 | 0.500 |
| camel | 0.613 | 0.580 | 0.640 | 0.610 | 0.630 | 0.560 | 0.560 | 0.540 | 0.500 |
| derby | 0.740 | 0.730 | 0.650 | 0.620 | 0.610 | 0.560 | 0.600 | 0.520 | 0.500 |
| groovy | 0.723 | 0.670 | 0.660 | 0.650 | 0.620 | 0.620 | 0.570 | 0.570 | 0.500 |
| hbase | 0.612 | 0.610 | 0.620 | 0.590 | 0.580 | 0.540 | 0.550 | 0.540 | 0.490 |
| hive | 0.641 | 0.640 | 0.670 | 0.620 | 0.610 | 0.560 | 0.570 | 0.520 | 0.490 |
| jruby | 0.752 | 0.740 | 0.610 | 0.620 | 0.590 | 0.520 | 0.590 | 0.550 | 0.460 |
| lucene | 0.562 | 0.550 | 0.680 | 0.560 | 0.610 | 0.520 | 0.530 | 0.510 | 0.480 |
| wicket | 0.638 | 0.610 | 0.630 | 0.610 | 0.670 | 0.520 | 0.570 | 0.530 | 0.500 |
| Average | 0.660 | 0.641 | 0.643 | 0.614 | 0.617 | 0.552 | 0.568 | 0.536 | 0.491 |
| | PLEASE | BARLineDP | BAFLineDP | LineDef | DeepLineDP | BoW | DBN | CNN | Bi-LSTM |

