runfile('H:/Bishops University/Masters Project/CS590\_DataMining\_Project/CS590\_DataMining\_Project.py', wdir='H:/Bishops University/Masters Project/CS590\_DataMining\_Project')

Training Data:

SNO 1 2 3 4 ... 66 67 68 69 rank

2506 U00921\_at 20 20 20 20 ... 118 115 102 119 222.388504

6528 U59877\_s\_at 20 45 20 20 ... 923 1358 1081 1120 166.874021

6663 AF000424\_s\_at 20 20 20 20 ... 73 102 94 92 162.284150

5503 D13631\_s\_at 21 54 20 31 ... 331 396 314 293 148.242194

3688 U79242\_at 20 20 20 20 ... 153 192 185 121 139.143388

2076 M63623\_at 20 20 20 20 ... 378 303 269 159 129.729591

2502 S95936\_at 20 23 20 20 ... 576 689 342 394 110.281478

5717 U48705\_rna1\_s\_at 188 131 156 198 ... 843 859 858 826 107.027950

2312 M93426\_at 20 81 85 40 ... 874 997 1069 896 106.849034

3533 U67156\_at 40 26 20 87 ... 163 138 120 221 106.469902

2835 U20350\_at 20 20 20 20 ... 341 450 586 319 104.916232

2227 M84349\_at 125 157 232 129 ... 631 919 782 813 104.417907

6263 M57466\_s\_at 101 82 20 20 ... 569 577 286 423 103.121551

3890 U90916\_at 51 20 20 54 ... 192 197 214 248 101.665267

1455 L36818\_at 105 60 25 55 ... 199 243 237 209 94.977502

3095 U39817\_at 20 20 20 20 ... 82 123 103 77 91.078566

2897 U25956\_at 20 20 20 20 ... 94 62 158 179 89.505804

194 D16181\_at 20 20 39 20 ... 1068 1628 1244 1389 85.936582

2879 U24266\_at 30 41 61 42 ... 194 215 209 182 85.646967

3179 U45955\_at 54 154 133 148 ... 1026 889 792 929 85.595040

4222 X55740\_at 20 20 20 20 ... 166 154 166 92 79.732651

5514 D14826\_s\_at 20 20 20 26 ... 63 73 78 97 79.082912

1335 L20971\_at 22 73 292 50 ... 432 401 435 336 77.268432

6362 S69272\_s\_at 51 100 149 82 ... 298 357 329 361 77.201879

3220 U48250\_at 44 33 29 20 ... 678 443 490 298 75.820594

3433 U60975\_at 135 102 38 156 ... 473 607 700 670 74.471526

965 HG620-HT620\_at 20 20 20 20 ... 50 89 88 59 73.462454

5189 D25304\_at 270 250 140 167 ... 656 799 641 737 72.020424

4875 Y00318\_at 20 20 20 27 ... 262 320 173 158 70.875012

754 HG1828-HT1857\_at 20 20 20 20 ... 335 465 410 235 69.626341

... ... ... ... ... ... ... ... ... ... ...

3843 U88892\_at 20 20 20 20 ... 20 20 20 20 0.183066

1195 L09234\_at 20 20 20 20 ... 20 20 20 20 0.183066

6478 X91196\_s\_at 20 20 20 20 ... 20 20 20 20 0.183066

1488 L38933\_rna1\_at 20 20 20 20 ... 20 20 20 20 0.179339

63 AF000560\_at 330 114 94 123 ... 122 94 106 140 0.179240

5397 X17360\_rna1\_at 20 20 305 20 ... 20 20 20 20 0.178840

5221 J02986\_cds1\_at 20 20 20 20 ... 20 20 20 20 0.172958

6934 U62434\_at 20 20 20 20 ... 20 20 20 20 0.172507

4300 X61079\_at 63 50 51 42 ... 54 54 49 45 0.170212

129 D12686\_at 20 20 20 26 ... 20 20 20 30 0.169638

857 HG3432-HT3618\_at 26 23 25 26 ... 77 75 65 84 0.168917

4209 X54925\_at 20 20 20 20 ... 20 20 20 20 0.165052

218 D21163\_at 83 42 47 78 ... 59 34 35 50 0.164822

2115 M67439\_at 29 20 33 25 ... 20 20 20 20 0.164523

4483 X74764\_at 207 190 145 200 ... 370 320 369 771 0.162530

25 AB002380\_at 109 97 339 116 ... 111 134 125 176 0.161248

3021 U34605\_at 20 20 20 20 ... 23 24 20 21 0.159137

5138 Z70723\_at 20 20 20 20 ... 20 20 20 20 0.154525

4426 X69550\_at 314 239 296 362 ... 369 473 464 492 0.149493

1452 L36642\_at 20 20 20 20 ... 20 20 20 20 0.148956

4537 X77748\_at 20 20 20 20 ... 20 20 20 20 0.140237

6138 M31423\_s\_at 20 20 20 20 ... 20 20 20 20 0.138904

233 D23673\_at 283 285 271 349 ... 288 343 348 324 0.135878

564 D83780\_at 104 87 94 94 ... 102 102 100 98 0.134071

5373 U74324\_at 20 20 20 20 ... 20 20 20 20 0.121005

6861 X54489\_rna1\_at 20 20 20 20 ... 20 20 20 20 0.102060

1241 L13042\_at 50 53 48 42 ... 48 40 41 30 0.099092

1658 M14159\_cds2\_at 48 85 108 27 ... 20 62 48 38 0.092244

3355 U56816\_at 122 73 79 120 ... 114 73 76 103 0.081504

4156 X51757\_at 20 20 20 21 ... 50 25 20 32 0.065644

[6413 rows x 71 columns]

Testing Data:

SNO 101 102 103 104 ... 120 121 122 123 rank

2506 U00921\_at 20 25 20 20 ... 20 20 20 20 222.388504

6528 U59877\_s\_at 176 20 20 20 ... 180 278 20 185 166.874021

6663 AF000424\_s\_at 20 20 20 20 ... 20 20 20 20 162.284150

5503 D13631\_s\_at 44 165 20 20 ... 20 59 20 56 148.242194

3688 U79242\_at 53 20 74 20 ... 20 70 30 20 139.143388

2076 M63623\_at 97 20 20 20 ... 20 20 20 20 129.729591

2502 S95936\_at 21 22 20 20 ... 20 20 46 20 110.281478

5717 U48705\_rna1\_s\_at 436 920 51 64 ... 107 462 101 109 107.027950

2312 M93426\_at 1249 331 113 20 ... 20 416 37 68 106.849034

3533 U67156\_at 51 30 20 27 ... 20 20 20 30 106.469902

2835 U20350\_at 21 97 20 20 ... 20 20 20 61 104.916232

2227 M84349\_at 177 173 134 134 ... 122 473 114 186 104.417907

6263 M57466\_s\_at 20 94 20 20 ... 33 20 20 215 103.121551

3890 U90916\_at 28 41 20 20 ... 29 20 20 20 101.665267

1455 L36818\_at 90 134 20 55 ... 231 144 39 69 94.977502

3095 U39817\_at 20 35 20 20 ... 20 20 20 20 91.078566

2897 U25956\_at 20 20 20 20 ... 20 20 20 20 89.505804

194 D16181\_at 491 21 20 20 ... 20 20 20 20 85.936582

2879 U24266\_at 20 135 52 20 ... 42 61 20 24 85.646967

3179 U45955\_at 182 658 62 28 ... 20 261 74 116 85.595040

4222 X55740\_at 26 20 20 20 ... 20 20 20 48 79.732651

5514 D14826\_s\_at 20 42 20 20 ... 48 25 20 20 79.082912

1335 L20971\_at 90 50 111 44 ... 121 36 20 20 77.268432

6362 S69272\_s\_at 62 201 27 42 ... 245 252 112 136 77.201879

3220 U48250\_at 514 57 20 20 ... 20 20 20 20 75.820594

3433 U60975\_at 117 144 100 92 ... 127 77 35 67 74.471526

965 HG620-HT620\_at 35 20 20 20 ... 20 20 20 42 73.462454

5189 D25304\_at 181 397 20 127 ... 226 320 175 324 72.020424

4875 Y00318\_at 20 20 20 20 ... 20 20 20 43 70.875012

754 HG1828-HT1857\_at 103 40 20 20 ... 20 20 172 33 69.626341

... ... ... ... ... ... ... ... ... ... ...

3843 U88892\_at 20 20 20 20 ... 20 20 20 20 0.183066

1195 L09234\_at 20 20 20 20 ... 20 20 20 20 0.183066

6478 X91196\_s\_at 20 20 20 20 ... 20 20 20 20 0.183066

1488 L38933\_rna1\_at 20 20 20 20 ... 20 20 20 20 0.179339

63 AF000560\_at 236 93 20 113 ... 157 205 180 393 0.179240

5397 X17360\_rna1\_at 20 20 20 20 ... 107 20 20 20 0.178840

5221 J02986\_cds1\_at 20 20 40 20 ... 20 20 20 20 0.172958

6934 U62434\_at 20 20 20 20 ... 29 20 20 20 0.172507

4300 X61079\_at 53 57 41 46 ... 76 59 63 54 0.170212

129 D12686\_at 20 20 109 20 ... 20 49 20 20 0.169638

857 HG3432-HT3618\_at 43 40 20 32 ... 20 34 60 33 0.168917

4209 X54925\_at 20 20 20 20 ... 293 20 20 20 0.165052

218 D21163\_at 117 54 173 61 ... 80 100 40 56 0.164822

2115 M67439\_at 20 27 20 20 ... 20 20 27 20 0.164523

4483 X74764\_at 263 433 192 233 ... 264 160 367 342 0.162530

25 AB002380\_at 184 207 164 86 ... 93 119 68 85 0.161248

3021 U34605\_at 20 28 20 20 ... 20 20 20 20 0.159137

5138 Z70723\_at 20 20 20 20 ... 20 20 20 20 0.154525

4426 X69550\_at 535 483 322 520 ... 318 559 386 498 0.149493

1452 L36642\_at 20 20 20 20 ... 33 20 20 20 0.148956

4537 X77748\_at 20 20 20 20 ... 20 20 20 20 0.140237

6138 M31423\_s\_at 20 20 20 20 ... 20 20 20 20 0.138904

233 D23673\_at 492 213 192 458 ... 273 288 184 181 0.135878

564 D83780\_at 74 118 20 113 ... 75 114 116 125 0.134071

5373 U74324\_at 20 20 20 20 ... 20 20 20 20 0.121005

6861 X54489\_rna1\_at 20 20 20 20 ... 20 20 20 20 0.102060

1241 L13042\_at 39 49 20 47 ... 55 44 53 26 0.099092

1658 M14159\_cds2\_at 60 55 69 30 ... 20 139 20 40 0.092244

3355 U56816\_at 211 85 167 99 ... 101 130 77 112 0.081504

4156 X51757\_at 20 20 48 20 ... 444 111 20 48 0.065644

[6413 rows x 25 columns]

Best N : 30

Best Clasifier : ExtraTreesClassifier

Best Accuracy : 0.9587820512820514

Test dataset predictions :

['MGL' 'EPD' 'MED' 'MED' 'EPD' 'MED' 'MED' 'MED' 'EPD' 'JPA' 'JPA' 'MED'

'MED' 'MED' 'MED' 'MED' 'MGL' 'MED' 'MED' 'RHB' 'RHB' 'MED' 'MED']





