

| 400X         |            |                   |            |
|--------------|------------|-------------------|------------|
| Model        | Feature    | Technique         | CPU Time   |
| HF + ML      | Haralick   | Decision Tree     | 23.983297  |
| HF + ML      | Haralick   | Naive Bayes       | 23.983343  |
| HF + ML      | Haralick   | SGD               | 23.983400  |
| HF + ML      | Haralick   | Gradient Boosting | 23.985257  |
| HF + ML      | Haralick   | Linear SVM        | 24.001595  |
| HF + ML      | Haralick   | Adaboost          | 24.006656  |
| HF + ML      | Haralick   | KNN               | 24.015818  |
| HF + ML      | Haralick   | Random Forest     | 24.018934  |
| HF + ML      | Haralick   | SVM               | 24.026581  |
| HF + ML      | Haralick   | Extremely Trees   | 24.029049  |
| HF + ML      | HOG        | SGD               | 44.078256  |
| HF + ML      | HOG        | Decision Tree     | 44.080437  |
| HF + ML      | HOG        | Gradient Boosting | 44.087507  |
| HF + ML      | HOG        | Naive Bayes       | 44.095536  |
| HF + ML      | HOG        | Random Forest     | 44.124810  |
| HF + ML      | HOG        | Extremely Trees   | 44.142294  |
| HF + ML      | HOG        | Adaboost          | 44.393362  |
| HF + ML      | HOG        | Linear SVM        | 47.375111  |
| HF + ML      | HOG        | SVM               | 47.474426  |
| HF + ML      | HOG        | KNN               | 52.183102  |
| DL + ML (TL) | IV3        | Decision Tree     | 59.5580101 |
| DL + ML (TL) | IV3        | SGD               | 59.5581791 |
| DL + ML (TL) | IV3        | Gradient Boosting | 59.5592435 |
| DL + ML (TL) | IV3        | Naive Bayes       | 59.5598303 |
| DL + ML (TL) | IV3        | Random Forest     | 59.6020761 |
| DL + ML (TL) | IV3        | Extremely Trees   | 59.6076522 |
| DL + ML (TL) | IV3        | Adaboost          | 59.6207159 |
| DL + ML (TL) | RESNET 152 | KNN               | 59.8140593 |
| DL + ML (TL) | IV3        | Linear SVM        | 60.0261535 |
| DL + ML (TL) | IV3        | SVM               | 60.1389772 |
| DL + ML (TL) | RESNET 152 | SGD               | 73.2605575 |
| DL + ML (TL) | RESNET 152 | Decision Tree     | 73.2608885 |
| DL + ML (TL) | RESNET 152 | Gradient Boosting | 73.2621214 |
| DL + ML (TL) | RESNET 152 | Naive Bayes       | 73.2647513 |
| DL + ML (TL) | RESNET 152 | Random Forest     | 73.2900329 |
| DL + ML (TL) | RESNET 152 | Extremely Trees   | 73.3196117 |
| DL + ML (TL) | RESNET 152 | Adaboost          | 73.3294187 |
| DL + ML (FT) | IV3        | SGD               | 73.6602972 |
| DL + ML (FT) | IV3        | Decision Tree     | 73.6604605 |
| DL + ML (FT) | IV3        | Gradient Boosting | 73.6618691 |
| DL + ML (FT) | IV3        | Naive Bayes       | 73.6634591 |
| DL + ML (TL) | RESNET 152 | Linear SVM        | 73.6867544 |
| DL + ML (FT) | IV3        | Random Forest     | 73.7212269 |
| DL + ML (FT) | IV3        | Adaboost          | 73.7309472 |
| DL + ML (FT) | IV3        | Extremely Trees   | 73.7409302 |
| DL + ML (TL) | RESNET 152 | SVM               | 73.7455952 |
| DL + ML (TL) | RESNET 152 | KNN               | 73.7899373 |
| DL + ML (FT) | IV3        | Linear SVM        | 73.8741633 |
| DL + ML (FT) | RESNET 152 | KNN               | 74.0012339 |
| DL + ML (FT) | IV3        | SVM               | 74.091831  |
| HF + ML      | LPQ        | Decision Tree     | 75.7514219 |
| HF + ML      | LPQ        | SGD               | 75.7514519 |
| HF + ML      | LPQ        | Naive Bayes       | 75.7529381 |
| HF + ML      | LPQ        | Gradient Boosting | 75.7531587 |
| HF + ML      | LPQ        | Random Forest     | 75.7845163 |
| HF + ML      | LPQ        | Extremely Trees   | 75.7922226 |
| HF + ML      | LPQ        | Adaboost          | 75.8085503 |
| HF + ML      | LPQ        | Linear SVM        | 75.9793387 |
| HF + ML      | LPQ        | SVM               | 76.1024232 |
| HF + ML      | LPQ        | KNN               | 76.1151511 |
| DL + ML (FT) | RESNET 152 | SGD               | 83.5334112 |
| DL + ML (FT) | RESNET 152 | Decision Tree     | 83.5334245 |
| DL + ML (FT) | RESNET 152 | Naive Bayes       | 83.5343002 |
| DL + ML (FT) | RESNET 152 | Gradient Boosting | 83.5358042 |
| DL + ML (FT) | RESNET 152 | Random Forest     | 83.5766002 |
| DL + ML (FT) | RESNET 152 | Extremely Trees   | 83.5920301 |
| DL + ML (FT) | RESNET 152 | Adaboost          | 83.5957046 |
| DL + ML (FT) | RESNET 152 | Linear SVM        | 83.8549942 |
| DL + ML (FT) | RESNET 152 | KNN               | 84.0024856 |
| DL + ML (FT) | RESNET 152 | SVM               | 84.1139906 |
| HF + ML      | LBP        | Decision Tree     | 121.434195 |
| HF + ML      | LBP        | Naive Bayes       | 121.434335 |
| HF + ML      | LBP        | SGD               | 121.434478 |
| HF + ML      | LBP        | Gradient Boosting | 121.435162 |
| HF + ML      | LBP        | Linear SVM        | 121.455263 |
| HF + ML      | LBP        | Adaboost          | 121.456869 |
| HF + ML      | LBP        | Random Forest     | 121.468182 |
| HF + ML      | LBP        | KNN               | 121.475046 |
| HF + ML      | LBP        | Extremely Trees   | 121.476723 |
| HF + ML      | LBP        | SVM               | 121.481375 |

| 400X         |            |                   |            |
|--------------|------------|-------------------|------------|
| Model        | Feature    | Technique         | GPU Time   |
| HF + ML      | Haralick   | Naive Bayes       | 19.150085  |
| HF + ML      | Haralick   | Decision Tree     | 19.150102  |
| HF + ML      | Haralick   | SGD               | 19.150107  |
| HF + ML      | Haralick   | Gradient Boosting | 19.151750  |
| HF + ML      | Haralick   | Linear SVM        | 19.164257  |
| HF + ML      | Haralick   | Adaboost          | 19.173258  |
| HF + ML      | Haralick   | Random Forest     | 19.180255  |
| HF + ML      | Haralick   | KNN               | 19.180255  |
| HF + ML      | Haralick   | SVM               | 19.190209  |
| HF + ML      | Haralick   | Extremely Trees   | 19.193348  |
| HF + ML      | HOG        | Naive Bayes       | 35.542774  |
| HF + ML      | HOG        | Decision Tree     | 35.547263  |
| HF + ML      | HOG        | SGD               | 35.547730  |
| HF + ML      | HOG        | Gradient Boosting | 35.553874  |
| HF + ML      | HOG        | Random Forest     | 35.588738  |
| HF + ML      | HOG        | Adaboost          | 35.860074  |
| HF + ML      | HOG        | SVM               | 38.544139  |
| HF + ML      | HOG        | Linear SVM        | 38.848263  |
| DL + ML (TL) | IV3        | SGD               | 39.344051  |
| DL + ML (TL) | IV3        | Decision Tree     | 39.3443572 |
| DL + ML (TL) | IV3        | Naive Bayes       | 39.3456096 |
| DL + ML (TL) | IV3        | Gradient Boosting | 39.3458988 |
| DL + ML (TL) | IV3        | Random Forest     | 39.3812475 |
| DL + ML (TL) | IV3        | Adaboost          | 39.3981582 |
| DL + ML (TL) | IV3        | Extremely Trees   | 39.3994387 |
| DL + ML (TL) | IV3        | KNN               | 39.5241738 |
| DL + ML (TL) | IV3        | Linear SVM        | 39.7588168 |
| DL + ML (TL) | IV3        | SVM               | 39.8353842 |
| HF + ML      | HOG        | Extremely Trees   | 41.666549  |
| HF + ML      | HOG        | KNN               | 43.548030  |
| DL + ML (TL) | RESNET 152 | SGD               | 44.2818375 |
| DL + ML (TL) | RESNET 152 | Decision Tree     | 44.2821622 |
| DL + ML (TL) | RESNET 152 | Naive Bayes       | 44.2835079 |
| DL + ML (TL) | RESNET 152 | Gradient Boosting | 44.2836996 |
| DL + ML (TL) | RESNET 152 | Random Forest     | 44.3157513 |
| DL + ML (TL) | RESNET 152 | Extremely Trees   | 44.3255616 |
| DL + ML (TL) | RESNET 152 | Adaboost          | 44.3339732 |
| DL + ML (TL) | RESNET 152 | Linear SVM        | 44.5190161 |
| DL + ML (TL) | RESNET 152 | SVM               | 44.6521683 |
| DL + ML (TL) | RESNET 152 | KNN               | 44.6820567 |
| DL + ML (FT) | IV3        | SGD               | 45.5400668 |
| DL + ML (FT) | IV3        | Decision Tree     | 45.5402313 |
| DL + ML (FT) | IV3        | Naive Bayes       | 45.5422287 |
| DL + ML (FT) | IV3        | Gradient Boosting | 45.5426169 |
| DL + ML (FT) | IV3        | Random Forest     | 45.5935125 |
| DL + ML (FT) | IV3        | Extremely Trees   | 45.6028214 |
| DL + ML (FT) | IV3        | Adaboost          | 45.6039999 |
| DL + ML (FT) | IV3        | Linear SVM        | 45.7395555 |
| DL + ML (FT) | IV3        | KNN               | 45.7573495 |
| DL + ML (FT) | IV3        | SVM               | 45.9343377 |
| DL + ML (FT) | RESNET 152 | SGD               | 55.5231101 |
| DL + ML (FT) | RESNET 152 | Decision Tree     | 55.5231838 |
| DL + ML (FT) | RESNET 152 | Naive Bayes       | 55.5245807 |
| DL + ML (FT) | RESNET 152 | Gradient Boosting | 55.5247692 |
| DL + ML (FT) | RESNET 152 | Random Forest     | 55.5602261 |
| DL + ML (FT) | RESNET 152 | Extremely Trees   | 55.5742892 |
| DL + ML (FT) | RESNET 152 | Adaboost          | 55.57877   |
| DL + ML (FT) | RESNET 152 | Linear SVM        | 55.7336945 |
| DL + ML (FT) | RESNET 152 | KNN               | 55.8667869 |
| DL + ML (FT) | RESNET 152 | SVM               | 56.0508692 |
| HF + ML      | LBP        | Decision Tree     | 102.526222 |
| HF + ML      | LBP        | Naive Bayes       | 102.526222 |
| HF + ML      | LBP + LPQ  | SGD               | 102.526385 |
| HF + ML      | LBP + LPQ  | Decision Tree     | 102.526695 |
| HF + ML      | LBP        | Gradient Boosting | 102.526849 |
| HF + ML      | LBP + LPQ  | Gradient Boosting | 102.527823 |
| HF + ML      | LBP + LPQ  | Naive Bayes       | 102.528392 |
| HF + ML      | LBP        | SGD               | 102.533088 |
| HF + ML      | LBP        | Adaboost          | 102.545324 |
| HF + ML      | LBP        | Linear SVM        | 102.546469 |
| HF + ML      | LBP        | Random Forest     | 102.558053 |
| HF + ML      | LBP + LPQ  | Random Forest     | 102.559469 |
| HF + ML      | LBP + LPQ  | Extremely Trees   | 102.563754 |
| HF + ML      | LBP        | KNN               | 102.566009 |
| HF + ML      | LBP        | Extremely Trees   | 102.566429 |
| HF + ML      | LBP        | SVM               | 102.568549 |
| HF + ML      | LBP + LPQ  | Adaboost          | 102.578756 |
| HF + ML      | LBP + LPQ  | Linear SVM        | 102.731523 |
| HF + ML      | LBP + LPQ  | KNN               | 102.761549 |
| HF + ML      | LBP + LPQ  | SVM               | 102.871549 |

|              |                           |                   |            |
|--------------|---------------------------|-------------------|------------|
| HF + ML      | LBP + LPQ                 | SGD               | 197.185020 |
| HF + ML      | LBP + LPQ                 | Decision Tree     | 197.185230 |
| HF + ML      | LBP + LPQ                 | Naive Bayes       | 197.186968 |
| HF + ML      | LBP + LPQ                 | Gradient Boosting | 197.187082 |
| HF + ML      | LBP + LPQ                 | Random Forest     | 197.219434 |
| HF + ML      | LBP + LPQ                 | Extremely Trees   | 197.225319 |
| HF + ML      | LBP + LPQ                 | Adaboost          | 197.244754 |
| HF + ML      | LBP + LPQ                 | Linear SVM        | 197.381160 |
| HF + ML      | LBP + LPQ                 | KNN               | 197.426053 |
| HF + ML      | LBP + LPQ                 | SVM               | 197.534970 |
| HF + ML      | LBP + LPQ + GLCM          | SGD               | 221.167995 |
| HF + ML      | LBP + LPQ + GLCM          | Decision Tree     | 221.168179 |
| HF + ML      | LBP + LPQ + GLCM          | Gradient Boosting | 221.170057 |
| HF + ML      | LBP + LPQ + GLCM          | Naive Bayes       | 221.170077 |
| HF + ML      | LBP + LPQ + GLCM          | Random Forest     | 221.201273 |
| HF + ML      | LBP + LPQ + GLCM          | Extremely Trees   | 221.208386 |
| HF + ML      | LBP + LPQ + GLCM          | Adaboost          | 221.229792 |
| HF + ML      | LBP + LPQ + GLCM          | Linear SVM        | 221.338708 |
| HF + ML      | LBP + LPQ + GLCM          | KNN               | 221.482306 |
| HF + ML      | LBP + LPQ + GLCM          | SVM               | 221.508052 |
| HF + ML      | SIFT                      | SGD               | 477.241897 |
| HF + ML      | SIFT                      | Decision Tree     | 477.242143 |
| HF + ML      | SIFT                      | Naive Bayes       | 477.243669 |
| HF + ML      | SIFT                      | Gradient Boosting | 477.243803 |
| HF + ML      | SIFT                      | Random Forest     | 477.281569 |
| HF + ML      | SIFT                      | Extremely Trees   | 477.289242 |
| HF + ML      | SIFT                      | Adaboost          | 477.298435 |
| HF + ML      | SIFT                      | Linear SVM        | 477.519191 |
| HF + ML      | SIFT                      | SVM               | 477.607498 |
| HF + ML      | SIFT                      | KNN               | 478.073895 |
| DL           | Xception                  | LSTM              | 494.32974  |
| DL + ML (FT) | VGG 19                    | SGD               | 611.256342 |
| DL + ML (FT) | VGG 19                    | Decision Tree     | 611.256642 |
| DL + ML (FT) | VGG 19                    | Gradient Boosting | 611.258012 |
| DL + ML (FT) | VGG 19                    | Naive Bayes       | 611.259012 |
| DL + ML (FT) | VGG 19                    | Extremely Trees   | 611.316171 |
| DL + ML (FT) | VGG 19                    | Random Forest     | 611.324578 |
| DL + ML (FT) | VGG 19                    | Adaboost          | 611.334203 |
| DL + ML (FT) | VGG 19                    | Linear SVM        | 611.490838 |
| DL + ML (FT) | VGG 19                    | SVM               | 611.577843 |
| DL + ML (FT) | VGG 19                    | KNN               | 611.829798 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Decision Tree     | 694.788987 |
| DL + ML (FT) | VGG 19 + RESNET 152       | SGD               | 694.789087 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Naive Bayes       | 694.793122 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Gradient Boosting | 694.794978 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Random Forest     | 694.857378 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Extremely Trees   | 694.886688 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Linear SVM        | 695.183717 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Adaboost          | 695.280417 |
| DL + ML (FT) | VGG 19 + RESNET 152       | KNN               | 695.529382 |
| DL + ML (FT) | VGG 19 + RESNET 152       | SVM               | 695.78881  |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Decision Tree     | 768.449832 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | SGD               | 768.449882 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Gradient Boosting | 768.45467  |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Naive Bayes       | 768.455692 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Random Forest     | 768.527762 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Extremely Trees   | 768.547942 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Linear SVM        | 768.971081 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | KNN               | 769.189002 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Adaboost          | 769.189461 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | SVM               | 770.335622 |
| DL + ML (TL) | VGG 19                    | SGD               | 883.150707 |
| DL + ML (TL) | VGG 19                    | Decision Tree     | 883.15077  |
| DL + ML (TL) | VGG 19                    | Naive Bayes       | 883.15189  |
| DL + ML (TL) | VGG 19                    | Gradient Boosting | 883.15374  |
| DL + ML (TL) | VGG 19                    | Extremely Trees   | 883.207536 |
| DL + ML (TL) | VGG 19                    | Random Forest     | 883.215631 |
| DL + ML (TL) | VGG 19                    | Adaboost          | 883.228431 |
| DL + ML (TL) | VGG 19                    | Linear SVM        | 883.315431 |
| DL + ML (TL) | VGG 19                    | SVM               | 883.902196 |
| DL + ML (TL) | VGG 19                    | KNN               | 884.081127 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Decision Tree     | 956.41096  |
| DL + ML (TL) | VGG 19 + RESNET 152       | SGD               | 956.413495 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Naive Bayes       | 956.416193 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Gradient Boosting | 956.41715  |
| DL + ML (TL) | VGG 19 + RESNET 152       | Random Forest     | 956.50448  |
| DL + ML (TL) | VGG 19 + RESNET 152       | Extremely Trees   | 956.562255 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Linear SVM        | 956.655112 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Adaboost          | 956.864061 |
| DL + ML (TL) | VGG 19 + RESNET 152       | SVM               | 957.155534 |
| DL + ML (TL) | VGG 19 + RESNET 152       | KNN               | 958.325383 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | SGD               | 1015.96849 |

|              |                           |                   |            |
|--------------|---------------------------|-------------------|------------|
| HF + ML      | LBP + LPQ + GLCM          | SGD               | 121.676279 |
| HF + ML      | LBP + LPQ + GLCM          | Decision Tree     | 121.676379 |
| HF + ML      | LBP + LPQ + GLCM          | Gradient Boosting | 121.677015 |
| HF + ML      | LBP + LPQ + GLCM          | Naive Bayes       | 121.678057 |
| HF + ML      | LBP + LPQ + GLCM          | Random Forest     | 121.702755 |
| HF + ML      | LBP + LPQ + GLCM          | Extremely Trees   | 121.714479 |
| HF + ML      | LBP + LPQ + GLCM          | Adaboost          | 121.725724 |
| HF + ML      | LBP + LPQ + GLCM          | Linear SVM        | 121.852167 |
| HF + ML      | LBP + LPQ + GLCM          | KNN               | 121.988817 |
| HF + ML      | LBP + LPQ + GLCM          | SVM               | 122.011247 |
| HF + ML      | LPQ                       | SGD               | 157.345698 |
| HF + ML      | LPQ                       | Decision Tree     | 157.34622  |
| HF + ML      | LPQ                       | Naive Bayes       | 157.347645 |
| HF + ML      | LPQ                       | Gradient Boosting | 157.348262 |
| HF + ML      | LPQ                       | Random Forest     | 157.381261 |
| HF + ML      | LPQ                       | Extremely Trees   | 157.386492 |
| HF + ML      | LPQ                       | Adaboost          | 157.409055 |
| HF + ML      | LPQ                       | Linear SVM        | 157.569773 |
| HF + ML      | LPQ                       | SVM               | 157.745262 |
| HF + ML      | LPQ                       | KNN               | 157.801672 |
| HF + ML      | SIFT                      | SGD               | 338.442489 |
| HF + ML      | SIFT                      | Decision Tree     | 338.442511 |
| HF + ML      | SIFT                      | Naive Bayes       | 338.443905 |
| HF + ML      | SIFT                      | Gradient Boosting | 338.444012 |
| HF + ML      | SIFT                      | Adaboost          | 338.465405 |
| HF + ML      | SIFT                      | Random Forest     | 338.477343 |
| HF + ML      | SIFT                      | Extremely Trees   | 338.483108 |
| HF + ML      | SIFT                      | Linear SVM        | 338.657074 |
| HF + ML      | SIFT                      | SVM               | 338.802005 |
| HF + ML      | SIFT                      | KNN               | 339.243105 |
| DL           | Xception                  | LSTM              | 376.848185 |
| DL + ML (FT) | VGG 19                    | SGD               | 418.268573 |
| DL + ML (FT) | VGG 19                    | Decision Tree     | 418.268765 |
| DL + ML (FT) | VGG 19                    | Naive Bayes       | 418.270509 |
| DL + ML (FT) | VGG 19                    | Gradient Boosting | 418.271104 |
| DL + ML (FT) | VGG 19                    | Random Forest     | 418.313817 |
| DL + ML (FT) | VGG 19                    | Extremely Trees   | 418.326584 |
| DL + ML (FT) | VGG 19                    | Adaboost          | 418.331701 |
| DL + ML (FT) | VGG 19                    | Linear SVM        | 418.459833 |
| DL + ML (FT) | VGG 19                    | SVM               | 418.501296 |
| DL + ML (FT) | VGG 19                    | KNN               | 418.688032 |
| DL + ML (FT) | VGG 19 + RESNET 152       | SGD               | 473.791206 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Decision Tree     | 473.791593 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Naive Bayes       | 473.793984 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Gradient Boosting | 473.795693 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Random Forest     | 473.859867 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Extremely Trees   | 473.880574 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Adaboost          | 474.103346 |
| DL + ML (FT) | VGG 19 + RESNET 152       | Linear SVM        | 474.168501 |
| DL + ML (FT) | VGG 19 + RESNET 152       | KNN               | 474.423226 |
| DL + ML (FT) | VGG 19 + RESNET 152       | SVM               | 474.732778 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | SGD               | 519.33095  |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Decision Tree     | 519.331428 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Naive Bayes       | 519.335136 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Gradient Boosting | 519.335676 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Random Forest     | 519.40091  |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Extremely Trees   | 519.424173 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Adaboost          | 519.760665 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | Linear SVM        | 519.838259 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | KNN               | 519.963468 |
| DL + ML (FT) | VGG 19 + RESNET 152 + IV3 | SVM               | 520.797304 |
| DL + ML (TL) | VGG 19                    | SGD               | 660.320053 |
| DL + ML (TL) | VGG 19                    | Decision Tree     | 660.320085 |
| DL + ML (TL) | VGG 19                    | Naive Bayes       | 660.32145  |
| DL + ML (TL) | VGG 19                    | Gradient Boosting | 660.321767 |
| DL + ML (TL) | VGG 19                    | Random Forest     | 660.35264  |
| DL + ML (TL) | VGG 19                    | Extremely Trees   | 660.359688 |
| DL + ML (TL) | VGG 19                    | Adaboost          | 660.370924 |
| DL + ML (TL) | VGG 19                    | Linear SVM        | 660.452743 |
| DL + ML (TL) | VGG 19                    | SVM               | 660.782608 |
| DL + ML (TL) | VGG 19                    | KNN               | 661.076253 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Decision Tree     | 704.601822 |
| DL + ML (TL) | VGG 19 + RESNET 152       | SGD               | 704.601889 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Naive Bayes       | 704.605096 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Gradient Boosting | 704.606102 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Random Forest     | 704.689242 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Extremely Trees   | 704.707178 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Linear SVM        | 704.793359 |
| DL + ML (TL) | VGG 19 + RESNET 152       | Adaboost          | 704.984435 |
| DL + ML (TL) | VGG 19 + RESNET 152       | SVM               | 705.194455 |
| DL + ML (TL) | VGG 19 + RESNET 152       | KNN               | 706.021708 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | SGD               | 743.945234 |

|              |                           |                   |            |
|--------------|---------------------------|-------------------|------------|
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Decision Tree     | 1015.97065 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Naive Bayes       | 1015.97635 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Gradient Boosting | 1015.97666 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Random Forest     | 1016.06515 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Extremely Trees   | 1016.09858 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Linear SVM        | 1016.26518 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Adaboost          | 1016.49889 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | SVM               | 1016.90309 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | KNN               | 1018.463   |
| DL           |                           | ResNet 152        | 22527.8714 |

|              |                           |                   |            |
|--------------|---------------------------|-------------------|------------|
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Decision Tree     | 743.94617  |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Naive Bayes       | 743.949952 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Gradient Boosting | 743.952195 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Random Forest     | 744.030352 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Extremely Trees   | 744.047034 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Linear SVM        | 744.221993 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | Adaboost          | 744.426809 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | SVM               | 744.670923 |
| DL + ML (TL) | VGG 19 + RESNET 152 + IV3 | KNN               | 746.002461 |
| DL           |                           | ResNet 152        | 10362.7699 |