**List of features**

|  |  |
| --- | --- |
| WBC | White blood cells |
| RBC | Red blood cells |
| HGB | Hemoglobin |
| HCT | Hematocrit |
| PLT | Platelets |
| LYM | Lymphocytes |
| MON | Monocytes |
| NEU | Neutrophils |
| LYM% | Lymphocyte percentage |
| MON% | Monocyte percentage |
| NEU% | Neutrophil percentage |
| MCV | Mean corpuscular volume |
| MCH | Mean corpuscular hemoglobin |
| MCHC | Mean corpuscular hemoglobin count |
| RDW | Red blood cell distribution width |
| MPV | Mean platelet volume |
| EOS | Eosinophils |
| BAS | Basophils |
| EOS% | Eosinophil |
| BAS% | Basophil percentage |

**Gini-coefficients for the experiments reported in Table 1 in the manuscript.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | GBC-10F CV | LRC-10F CV- RFC | SVM-10f CV-RFC |
| LYM% | 0.035 | 0.098 | 0.098 |
| NEU% | 0.043 | 0.073 | 0.074 |
| LYM | 0.025 | 0.109 | 0.108 |
| MCH | 0.052 | 0.068 | 0.066 |
| MCV | 0.047 | 0.065 | 0.067 |
| EOS% | 0.115 | 0.054 | 0.054 |
| EOS | 0.084 | 0.009 | 0.009 |
| BAS% | 0.144 | 0.050 | 0.051 |
| RDW | 0.064 | 0.032 | 0.032 |
| PLT | 0.021 | 0.039 | 0.040 |
| RBC | 0.008 | 0.047 | 0.047 |
| BAS | 0.097 | 0.010 | 0.010 |
| WBC | 0.004 | 0.061 | 0.062 |
| MON% | 0.039 | 0.042 | 0.041 |
| MPV | 0.073 | 0.077 | 0.075 |
| MCHC | 0.057 | 0.031 | 0.031 |
| HCT | 0.017 | 0.040 | 0.040 |
| MON | 0.028 | 0.019 | 0.019 |
| HGB | 0.012 | 0.036 | 0.035 |
| NEU | 0.032 | 0.039 | 0.040 |

**Hyperparameter values used for the optimisation of the algorithms**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| GBC | learning\_rate  [0.01, 0.1, 1] | num\_estimators  [50, 100, 250] | subsample  [0.4, 0.5, 0.6, 0.7] | max\_depth  [2, 3, 4, 5, 6] |
| LRC | C  [0.001 – 10,000]  In 8 equal steps | gamma  [lbfgs, liblinear, newton-cg] |  |  |
| SVM | C  [0.001 – 10,000]  In 8 equal steps | gamma  [scale, auto] |  |  |
| FFN | epochs  [10, 25, 50, 100] | batch\_size  [6, 8, 10] | learning\_rate  [0.0001, 0.001, 0.01, 0.1] |  |
| TRF | d\_model  [32, 64, 128, 256] | num\_heads  [4, 8] | ff\_dim  [64, 128, 256] |  |