**Supplementary Table 3. The hyperparameters of the ML algorithms.**

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| **ML algorithms** | **Hyperparameters** |
| Logistic Regression Classifier (LRC) | penalty = ‘l2’, tol = 0.0001, C = 1.0, class\_weight = ‘balanced’, random\_state = 0, solver = ‘lbfgs’, max\_iter = 100 |
| RandomForestClassifier (RFC) | n\_estimators = 100, min\_samples\_split = 2, min\_samples\_leaf = 1, max\_features = ‘auto’, bootstrap = True, random\_state = 0, class\_weight = ‘balanced’ |
| GradientBoostingClassifier (GBC) | loss = ‘least\_squares’, learning\_rate = 0.1, max\_iter = 100, max\_leaf\_nodes = 31, min\_samples\_leaf = 20, max\_bins = 255, early\_stopping = ‘auto’, validation\_fraction = 0.1, n\_iter\_no\_change = 10, tol = 10-7, random\_state = 0 |