**S1 Table. List of adjusted hyperparameters of each classifier, their tested values and optimized value.**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | **Hyperparameter** | **Possible values** | **Best value in grid search** |
| **Logistic Regression** | penalty type | l1,l2,elasticnet | l2 |
|  | penalty coefficient | 0.1,1,10,100 | 0.1 |
| **Random Forest** | tree depth | 1,2,5,unlimited | 5 |
|  | max features | 1, sqrt(n) | 1 |
|  | estimators | 100 | 100 |
| **XGBoost** | gamma | 0,1,5,20 | 1 |
|  | learning rate | 0.05,0.1,0.25,0.5 | 0.05 |
|  | max depth | 1,2,5 | 2 |
|  | estimators | 100 | 100 |