

Table S1. List of models used during training set procedure

Model	Parameter 1	Parameter 2	Parameter 3
Logistic regression	solver: liblinear, saga	penalty: l1, l2, elasticnet	l1_ratio=0.1, 0.3, 0.5, 0.7, 0.9
Linear discriminant analysis	-	-	-
Decision Tree Classifier	-	-	-
Gaussian Naive Bayes	-	-	-
K-Neighbors Classifier	n_neighbors: 2, 5, 10	-	-
Random Forest Classifier	n_estimators: 10, 100, 1000	-	-
Neural Network	max_iter: 100, 200, 500	hidden_layer_sizes: 2, 10, 100	learning_rate_init=0.0001, 0.001, 0.01, 0.1
Support Vector Machines	kernel: rbf, sigmoid, poly	C: $2^{-5}, 2^{-4}, 2^{-3}, 2^{-2}, 2^{-1}, 2^0, 2^1, 2^2, 2^3, 2^4, 2^5, 2^6, 2^7, 2^8, 2^9, 2^{10}, 2^{11}, 2^{12}, 2^{13}, 2^{14}, 2^{15}$	gamma: $2^{-15}, 2^{-14}, 2^{-13}, 2^{-12}, 2^{-11}, 2^{-10}, 2^{-9}, 2^{-8}, 2^{-7}, 2^{-6}, 2^{-5}, 2^{-4}, 2^{-3}, 2^{-2}, 2^{-1}, 2^0, 2^1, 2^2, 2^3$

We specified the functions and the combination of parameters and hyperparameters used during the grid search to train the different models. The hyphen is put if the parameter is not used. The parameters not specified are used as set on default.