

Table 2, Detailed metrics of different machine learning algorithms in the training set.

Model	Logistic Regression	Random Forest	Support Vector Machine	Naïve Gaussian Bayes
Model 1	AUC: .853 (.838 - .867) SENS: .944 (.936 - .952) SPEC: .26 (.251 - .27) ACC: .605 (.595 - .615) PPV: .361 (.351 - .371) NPV: .91 (.899 - .921)	AUC: .853 (.838 - .867) SENS: .963 (.956 - .969) SPEC: .178 (.17 - .187) ACC: .577 (.566 - .587) PPV: .347 (.338 - .356) NPV: .913 (.9 - .926)	AUC: .803 (.79 - .815) SENS: .996 (.994 - .998) SPEC: .009 (.007 - .012) ACC: .504 (.493 - .516) PPV: .309 (.301 - .317) NPV: .844 (.751 - .909)	AUC: .803 (.79 - .815) SENS: .996 (.994 - .998) SPEC: .009 (.007 - .012) ACC: .504 (.493 - .516) PPV: .309 (.301 - .317) NPV: .844 (.751 - .909)
Model 2	AUC: .867 (.852 - .882) SENS: .913 (.903 - .922) SPEC: .461 (.449 - .473) ACC: .654 (.644 - .664) PPV: .448 (.436 - .46) NPV: .919 (.909 - .927)	AUC: .917 (.905 - .927) SENS: .902 (.892 - .912) SPEC: .696 (.686 - .706) ACC: .712 (.704 - .719) PPV: .571 (.558 - .584) NPV: .941 (.935 - .947)	AUC: .836 (.821 - .851) SENS: .979 (.974 - .984) SPEC: .048 (.043 - .053) ACC: .519 (.507 - .531) PPV: .329 (.32 - .338) NPV: .827 (.787 - .863)	AUC: .84 (.826 - .854) SENS: 1 (.999 - 1) SPEC: 0 (0 - 0) ACC: .5 (.488 - .512) PPV: .323 (.314 - .333) NPV: 0 (0 - 0)
Model 3	AUC: .883 (.869 - .895) SENS: .905 (.895 - .914) SPEC: .576 (.565 - .586) ACC: .688 (.679 - .696) PPV: .486 (.474 - .498) NPV: .932 (.924 - .939)	AUC: .917 (.905 - .927) SENS: .902 (.892 - .912) SPEC: .696 (.686 - .706) ACC: .712 (.704 - .719) PPV: .571 (.558 - .584) NPV: .941 (.935 - .947)	AUC: .835 (.821 - .848) SENS: .98 (.975 - .984) SPEC: .048 (.044 - .053) ACC: .521 (.51 - .532) PPV: .315 (.306 - .323) NPV: .841 (.804 - .873)	AUC: .84 (.827 - .852) SENS: 1 (.999 - 1) SPEC: 0 (0 - 0) ACC: .5 (.488 - .512) PPV: .307 (.299 - .316) NPV: 0 (0 - 0)
Model 4	AUC: .89 (.876 - .903) SENS: .905 (.894 - .915) SPEC: .607 (.595 - .618) ACC: .686 (.677 - .695) PPV: .528 (.514 - .541) NPV: .931 (.923 - .938)	AUC: .94 (.929 - .949) SENS: .902 (.891 - .912) SPEC: .809 (.799 - .818) ACC: .722 (.714 - .731) PPV: .691 (.677 - .705) NPV: .946 (.939 - .951)	AUC: .864 (.849 - .877) SENS: .967 (.96 - .973) SPEC: .134 (.126 - .142) ACC: .554 (.543 - .566) PPV: .346 (.336 - .356) NPV: .892 (.871 - .911)	AUC: .85 (.836 - .863) SENS: 1 (.999 - 1) SPEC: 0 (0 - 0) ACC: .5 (.488 - .512) PPV: .323 (.314 - .332) NPV: 0 (0 - 0)

The four models refer to different subset of attributes (see main text for details), while the different columns report the results of four different machine learning algorithms. AUC = Area Under Curve, where the curve is a ROC obtained by varying the threshold on the output probability of the algorithm. All the other metrics are obtained in a specific working point of this curve, arbitrarily set to be the first point with a sensitivity >0.9. SENS = sensitivity, SPEC = specificity, ACC = accuracy, PPV = positive predictive value, NPV = negative predictive value.