

Table 1: Characteristics of the machine learning models in our comparative study.

Model	Description	Linearity	Interpretability	Refs.
Logistic regression	A predictive regression analysis when the dependent variable is binary.	Linear	Interpretable	36
SVM with linear kernel	A classifier that is defined by an optimal linear separating hyperplane that discriminates between labels.	Linear	Interpratable	37
SVM with radial basis kernel	A classifier that is defined by an optimal gaussian separating hyperplane that discriminates between labels.	Non-linear	Explainable*	38
Decision tree	A classifier that sorts samples down from the root to the leaf node where an attribute is tested to discriminate between labels	Non-linear	Interpretable	39
Random forest	A classifier that is a decision tree ensemble that grow randomly with subsampled data.	Non-linear	Explainable*	40–41
XGBoost	A classifier that is a decision tree ensemble that grow with additive training.	Non-linear	Explainable*	42–43

*Explainable models are not inherently interpretable but can be explained with post-hoc analyses.