

S3 Appendix: Hyperparameters used in the models

Model	Parameters
Logistic Regression	C = 1.0
Decision Tree	criterion=gini, min_samples_split =2, min_samples_leaf =1
Random Forest	n_estimators=200, max_depth=10, max_features=None criterion=gini, random_state=0,
XGB	learning_rate=0.01, n_estimators=1000, max_depth=6, gamma=10, subsample = 0.8, colsample_bytree = 0.4, scale_pos_weight=1, objective=binary:logistic, reg_alpha = 0.3