

Table SI2: Parameter ranges in grid search for different machine learning methods

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|--|---|
| support vector machine (SVM) | kernel = 'rbf' $c = 2^{[-5, -3, -1, 1, 3, 5, 7, 9, 11, 13, 15]}$ $\text{gamma} = 2^{[-3, -5, -7, -9, -11, -13, -15]}$ |
| naïve Bayes (NB) | None |
| k-nearest neighbor (kNN) | Number of neighbors = [3, 5, 7, 9, 11, 13, 15] |
| C4.5 decision tree (DT) | Stop splitting nodes with less instances than 5 Limit the depth to 100 |
| random forest (RF) | Number of trees = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100] |
| artificial neural network (ANN) | Hidden layer neurons = [5, 10, 15, 20, 25, 30, 35, 40, 45] |