Keep Learning

100%

GRADE

Recap

TOTAL POINTS 4

- 1. Support Vector Machines (SVM) classifier belongs to a class of
 - Nearest Neighbours based
 - Neural Networks
 - Tree-based models
 - Linear models



SVM is a linear model with special loss function. Even with "kernel trick", it's still linear in new, extended space.

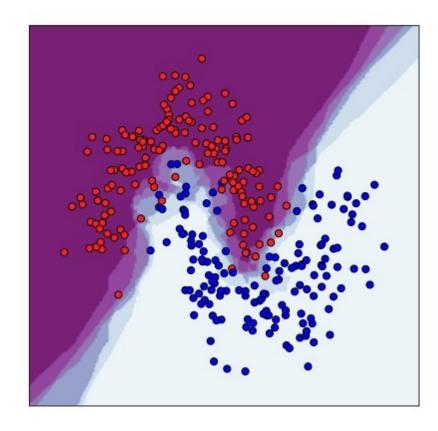
1 / 1 point

- ExtraTrees classifier always uses only a fraction of features when looking for a split (in contrast to Random Forest, which uses all features)
- ExtraTrees classifier always uses only a fraction of objects when looking for a split (in contrast to Random Forest, which uses all object)
- ExtraTrees classifier always tests random splits over fraction of features (in contrast to RandomForest, which tests all possible splits over fraction of features)

✓ Correct

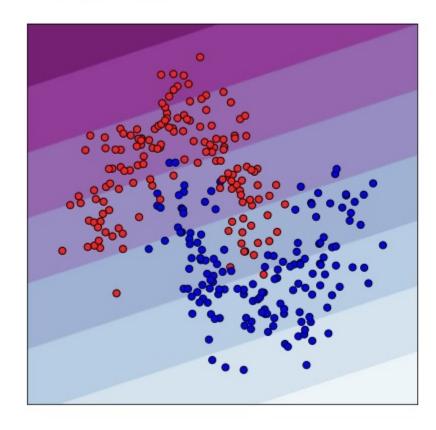
Right, this is why they are called extra (randomized) trees

What model was most probably used to produce such decision surface? Color (from white to purple) shows predicted probability for a point to be of class "red".



inear model
andom Forest
ecision Tree
NN
Correct
Right. Decision surface is non-linear and does not consist of vertical and horizontal lines, so k-NN is the most plausible option in this list

What model was most probably used to produce such decision surface? Color (from white to purple) shows predicted probability for a point to be of class "red".



O Decision Tree
○ k-NN
Random Forest
Linear model
✓ Correct Right. Decision boundary is hyperplane, so it was most probably produced by a linear model.