Recap

Practice Quiz, 4 questions

Congratulations! You passed!

Next Item

1 / 1 point

1.
Support Vector Machines (SVM) classifier belongs to a class of

- [x] Linear models

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

- [ ] Nearest Neighbours based
- [ ] Tree-based models
- [ ] Neural Networks

---

1 / 1 point

2.
What is the difference between RandomForest and ExtraTrees models from sklearn?

- [x] 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

- [ ]

Recap

Practice Quiz, 4 questions

ExtraTrees classifier always uses only a fraction of objects when looking for a split (in contrast to Random Forest, which uses all object)

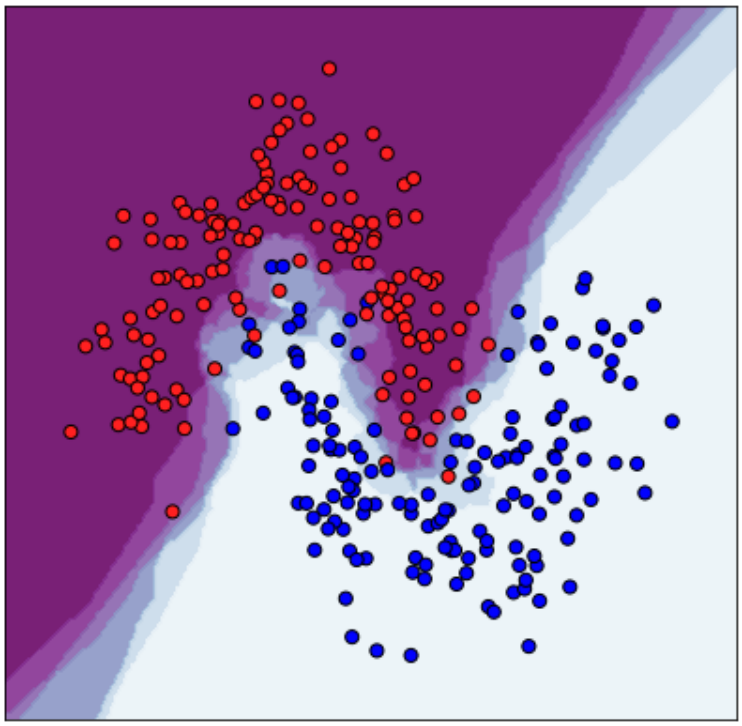
ExtraTrees classifier always uses only a fraction of features when looking for a split (in contrast to Random Forest, which uses all features)

---

1 / 1 point

3.

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".



- Decision Tree
- Random Forest
- Linear model
- kNN

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

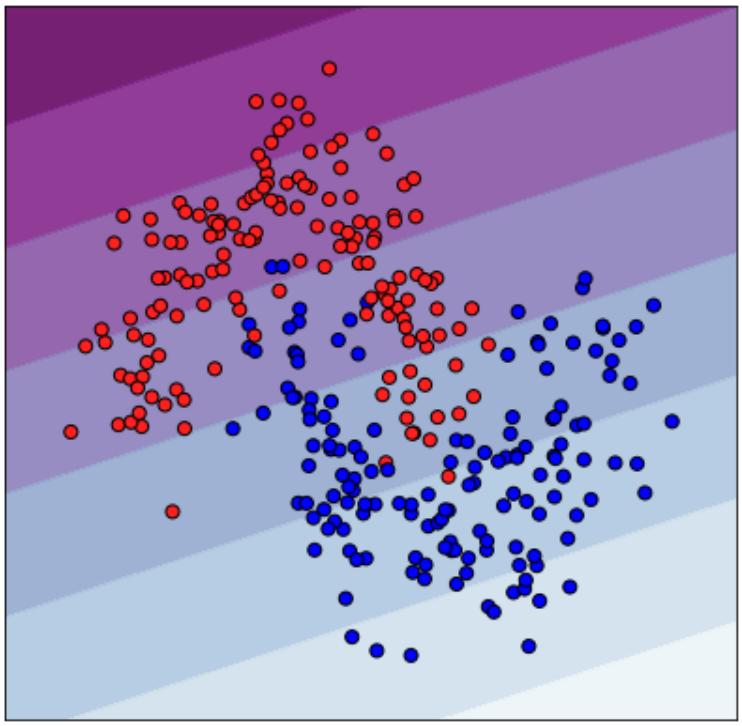
Recap

Practice Quiz, 4 questions

1 / 1 point

4.

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".



- [x] Linear model

Correct

Right. Decision boundary is hyperplane, so it was most probably produced by a linear model.

- [ ] Decision Tree
- [ ] Random Forest
- [ ] k-NN

Recap

Practice Quiz, 4 questions