Recap

Quiz, 6 questions

1 point

1.

What back propagation is usually used for in neural networks?

- To calculate gradient of the loss function with respect to the parameters of the network
- Make several random perturbations of parameters and go back to the best one
- To propagate signal through network from input to output only
- Select gradient update direction by flipping a coin

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1 point

2.

Suppose we've trained a RandomForest model with 100 trees. Consider two cases:

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1. We drop the first tree in the model

2. We drop the last tree in the model

We then compare models performance *on the train set*. Select the right answer.

- In the *case 1* performance **will drop less** than in the *case 2*
- In the *case 1* performance **will drop more** than in the *case 2*
- In the *case 1* performance **will be roughly the same** as in the *case 2*

---

1 point

3.

Suppose we've trained a GBDT model with 100 trees with a fairly large learning rate. Consider two cases:

1. We drop the first tree in the model

2. We drop the last tree in the model

We then compare models performance *on the train set*. Select the right answer.

- In the *case 1* performance **will drop less** than in the *case 2*
- In the *case 1* performance **will be roughly the same** as in the *case 2*
- In the *case 1* performance **will drop more** than in the *case 2*

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1 point

4.

Consider two cases:

1. We fit two RandomForestClassifiers 500 trees each and average their predicted probabilities on the test set.
2. We fit a RandomForestClassifier with 1000 trees and use it to get test set probabilities.

All hyperparameters except number of trees are the same for all models.

Select the right answer.

- The quality of predictions in the *case 1* **will be higher** than the quality of the predictions in the *case 2*
- The quality of predictions in the *case 1* **will be lower** than the quality of the predictions in the *case 2*
- The quality of predictions in the *case 1* **will be roughly the same** as the quality of the predictions in the *case 2*

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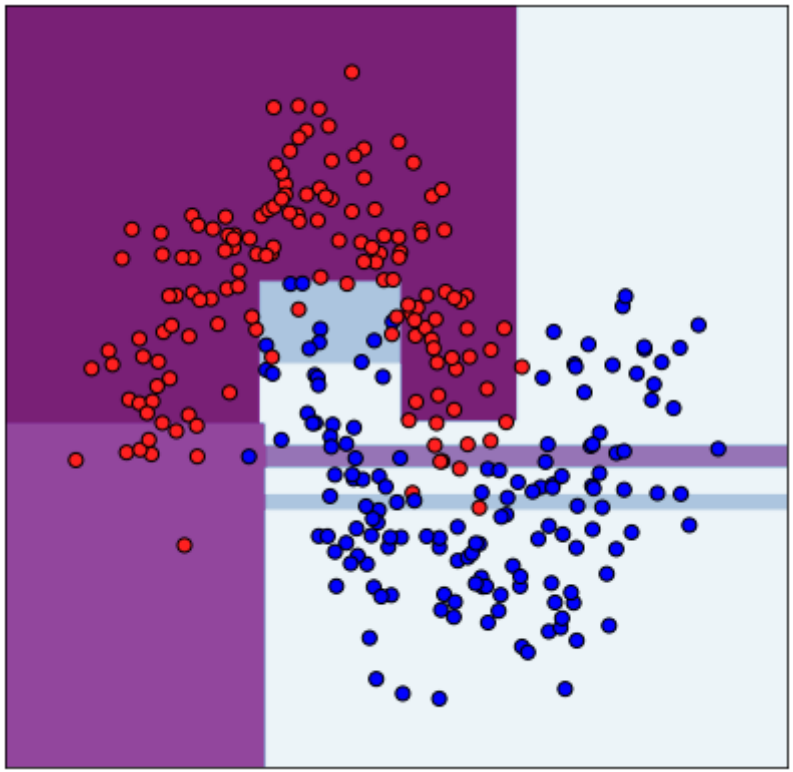
1 point

5.

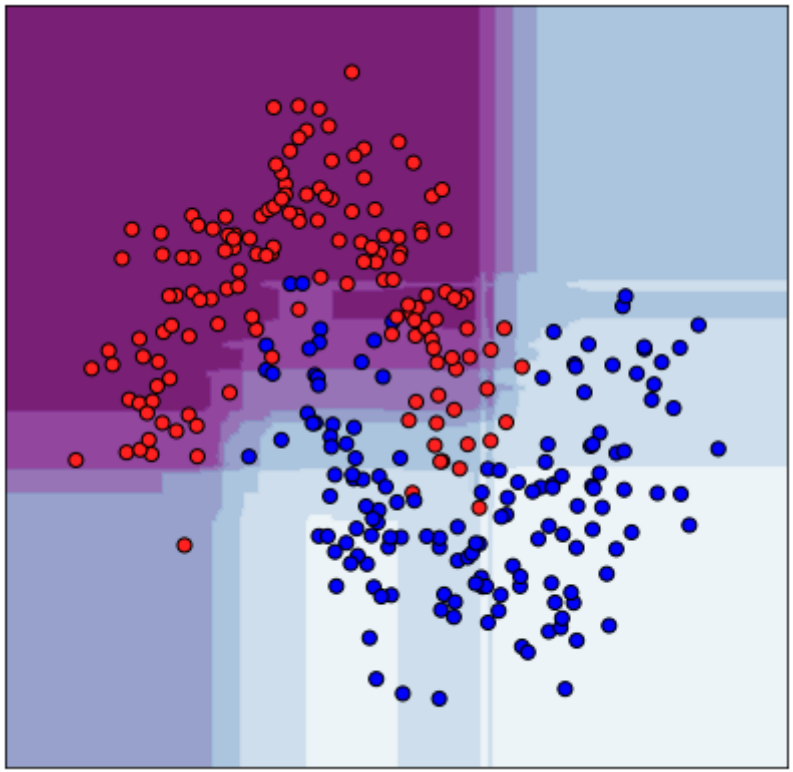
What model was most probably used to produce such decision surface? Color (from white to purple) shows predicted probability for a point to be of class "red".



- Decision Tree
- Linear model
- Random Forest
- k-NN

6.

What model was most probably used to produce such decision surface?



- Decision Tree
- k-NN
- Linear model
- Random Forest

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