Recap Quiz, 6 questions

3.

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
Select gradient update direction by flipping a coin
To propagate signal through network from input to output only
Make several random perturbations of parameters and go back to the best one
1 point
2. Suppose we've trained a RandomForest model with 100 trees. 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 drop more than in the case 2
In the <i>case 1</i> performance will be roughly the same as in the <i>case 2</i>
1 point

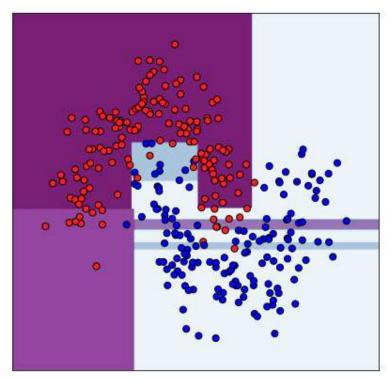
Suppose we've trained a GBDT model with 100 trees with a fairly large learning rate. Consider two cases: Recap Quiz, 671446 on op the first tree in the model 2. We drop the last tree in the model We then compare models performance on the train set. Select the right answer. In the case 1 performance will be roughly the same as in the case 2 In the case 1 performance will drop more than in the case 2 In the case 1 performance will drop less than in the case 2 1 point 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 roughly the same as 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

1 point

5.

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

Quiz, 6 questions



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

1 point

6.

What model was most probably used to produce such decision surface? $\label{eq:Recap} Recap$

