Untitled

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LMT(examples){  
 root <- new Node()  
 alpha <- getCARTAlpha(examples)  
 root.buildTree(examples, null)  
 root.CARTprune(alpha)  
}  
  
buildTree(examples, inititalLinearModels){  
 numIterations =  
 CV\_Iterations(examples, inititalLinearModels)  
 initLogitBoost(initialLinearModels)  
 linearModels <- copyOf(inititalLinearModels)  
 for i = 1...numIterations{  
 logitBoostIteration(linearModels, examples)  
 }  
 split <- findSplit(examples)  
 localExamples <- split.splitExamples(examples)  
 sons <- new Nodes[split.numSubsets()]  
 for s = 1...sons.length{  
 sons.buildTrees(localExamples[s], nodeModels)  
 }  
}  
  
  
CV\_Iterations(examples, initialModels) {  
 for fold = 1...5 {  
 initLogitBoost(inititalLinearModels)  
 # split into training/test sets  
 train <- trainCV(fold)  
 test <- testCV(fold)  
 linearModels <- copyOf(inititalLinearModels)  
 for i = 1...200{  
 logitBoostIteration(linearModels, train)  
 logErros[i] += error(test)   
 }  
 }  
 numIterations = findBestIteration(logErrrors)  
 return numIterations  
}