Coursera (/)

Like this course? Become an expert by joining the Machine Learning Specialization (/specializations/machine-learning).

Upgrade

(https://accounts.coursera.org/i/zendesk/courserahelp? return to=https://learner.coursera.help/hc)



Congratulations! (/learn/ml-You've View Final Grade completed the classification/home/welcome) course.

Decision Trees





Along with linear classifiers, decision trees are amongst the most widely used classification techniques in the real world. This method is

✓ More

Intuition Start Lesson (/learn/mlbehind classification/lecture/ZtvkP/predictingdecision loan-defaults-with-decision-trees) trees



Slides presented in this module

(/learn/ml-classification/supplement/2PWpF/slidespresented-in-this-module)



Predicting loan defaults with decision trees 4 min

(/learn/ml-classification/lecture/ZtvkP/predicting-loandefaults-with-decision-trees)



Intuition behind decision trees 2 min

(/learn/ml-classification/lecture/F8kuT/intuition-behinddecision-trees)



Task of learning decision trees from data 3 min

(/learn/ml-classification/lecture/xilmJ/task-of-learningdecision-trees-from-data)

Learning decision trees



(Recursive greedy algorithm 4 min

(/learn/ml-classification/lecture/Oor8r/recursive-greedyalgorithm)



(▶) Learning a decision stump 4 min

(/learn/ml-classification/lecture/U7PcP/learning-adecision-stump)



Selecting best feature to split

(/learn/ml-classification/lecture/9RN9F/selecting-bestfeature-to-split-on)



When to stop recursing 4 min

(/learn/ml-classification/lecture/fTlJU/when-to-stoprecursing)

Using the learned decision tree



Making predictions with decision

(/learn/ml-classification/lecture/HM4VD/makingpredictions-with-decision-trees)



Multiclass classification with

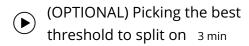
(/learn/ml-classification/lecture/IVMdN/multiclassclassification-with-decision-trees)

Learning decision trees with continuous inputs

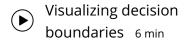
Threshold splits for continuous



(/learn/ml-classification/lecture/tn6M9/threshold-splits-for-continuous-inputs)

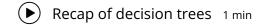


(/learn/ml-classification/lecture/sKrGp/optional-picking-the-best-threshold-to-split-on)



(/learn/ml-classification/lecture/kyi11/visualizing-decision-boundaries)

Summarizing decision trees



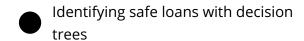
(/learn/ml-classification/lecture/ROzb2/recap-of-decision-trees)



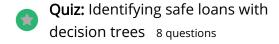
Quiz: Decision Trees 11 questions

(/learn/ml-classification/exam/c4ssq/decision-trees)

Programming Assignment 1

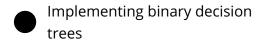


(/learn/ml-classification/supplement/ssPTc/identifying-safe-loans-with-decision-trees)



(/learn/ml-classification/exam/xHRYe/identifying-safe-loans-with-decision-trees)

Programming Assignment 2



(/learn/mlclassification/supplement/seWHJ/implementing-binarydecision-trees)



(/learn/ml-classification/exam/WxrJw/implementing-binary-decision-trees)