coursera (/)

Like this course? Become an expert by joining the Data Analysis and Interpretation Specialization (/specializations/data-analysis).

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

Upgrade

ℹ **Congratulations!** You've completed the course.

View Final Grade

(/learn/machine-learning-data-analysis/home/welcome)

Decision Trees

In this session, you will learn about decision trees, a type of data mining algorithm that can select from among a

∨ More

Software Setup and Course Supporting Materials

📄 **Some Guidance for Learners New to the Specialization**

(/learn/machine-learning-data-analysis/supplement/Ub2x1/some-guidance-for-learners-new-to-the-specialization)

📄 **SAS or Python - Which to Choose?**

Help Center

(/learn/machine-learning-data-analysis/supplement/MCNOu/sas-or-python-which-to-choose)

📄 Getting Started with SAS

(/learn/machine-learning-data-analysis/supplement/A6JHK/getting-started-with-sas)

● Getting Started with Python

(/learn/machine-learning-data-analysis/supplement/HpcYx/getting-started-with-python)

● Course Codebooks and Data

(/learn/machine-learning-data-analysis/supplement/TkhbT/course-codebooks-and-data)

● Uploading Your Own Data to SAS

(/learn/machine-learning-data-analysis/supplement/MHeuR/uploading-your-own-data-to-sas)

What Is Machine Learning

Start Lesson

(/learn/machine-learning-data-analysis/lecture/JQ4ri/what-is-machine-learning)

▶ What Is Machine Learning? 2 min

(/learn/machine-learning-data-analysis/lecture/JQ4ri/what-is-machine-learning)

Machine Learning and the Bias-Variance Tradeoff

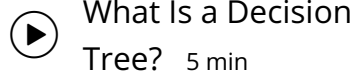▶ Machine Learning and the Bias Variance Trade-

Off   6 min

(/learn/machine-learning-data-
analysis/lecture/HPjl2/machine-learning-and-the-
bias-variance-trade-off)

What is a Decision Tree?

⬤   AddHealth Data for Decision
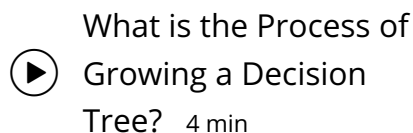Tree Videos

(/learn/machine-learning-data-
analysis/supplement/NMhtT/addhealth-data-for-
decision-tree-videos)

▶   What Is a Decision
Tree?   5 min

(/learn/machine-learning-data-
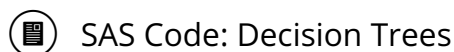analysis/lecture/DX4Cg/what-is-a-decision-tree)

What is the Process of Growing a Decision Tree?
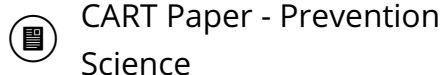
▶   What is the Process of
Growing a Decision
Tree?   4 min

(/learn/machine-learning-data-
analysis/lecture/Ecr25/what-is-the-process-of-
growing-a-decision-tree)

Building A Decision Tree with SAS

📄   SAS Code: Decision Trees

(/learn/machine-learning-data-
analysis/supplement/rRh6V/sas-code-decision-
trees)

📄   CART Paper - Prevention
Science

(/learn/machine-learning-data-

analysis/supplement/Kt8ag/cart-paper-
prevention-science)

(▶) Building a Decision Tree
with SAS   9 min

(/learn/machine-learning-data-
analysis/lecture/FO5JJ/building-a-decision-tree-
with-sas)

(▶) Strengths and Weaknesses
of Decision Trees in
SAS   4 min

(/learn/machine-learning-data-
analysis/lecture/HQ4mG/strengths-and-
weaknesses-of-decision-trees-in-sas)

Building a Decision Tree with Python

● Python Code: Decision
Trees

(/learn/machine-learning-data-
analysis/supplement/uZTZQ/python-code-
decision-trees)

(▶) Building a Decision Tree
with Python   9 min

(/learn/machine-learning-data-
analysis/lecture/yHOYj/building-a-decision-tree-
with-python)

Assignment

● Getting Set up for
Assignments

(/learn/machine-learning-data-
analysis/supplement/nIopV/getting-set-up-for-
assignments)

● Tumblr Instructions

(/learn/machine-learning-data-
analysis/supplement/KKkc0/tumblr-instructions)

✓ **Assignment:** Running a
Classification Tree   30 min

(/learn/machine-learning-data-
analysis/peer/lTaYF/running-a-classification-tree)

✓ **Review Classmates:** Running
a Classification Tree   30 min

(/learn/machine-learning-data-
analysis/peer/lTaYF/running-a-classification-
tree/give-feedback)

● Assignment Example

(/learn/machine-learning-data-
analysis/supplement/V2VNg/assignment-
example)