coursera

Welcome

Video: Welcome to Machine Learning!
1 min

Reading: Machine Learning Honor Code 8 min

Introduction

Video: Welcome 6 min

Video: What is Machine Learning?
7 min

Reading: What is Machine Learning?
5 min

Reading: How to Use Discussion Forums 4 min

Video: Supervised Learning
12 min

Reading: Supervised Learning 4 min

Video: Unsupervised Learning 14 min

Reading: Unsupervised Learning 3 min

Reading: Who are Mentors? 3 min

Reading: Get to Know Your Classmates
8 min

Reading: Frequently Asked
Questions
11 min

Review

Model and Cost Function Parameter Learning

Review

Linear Algebra Review

Review

<u>:</u>

What is Machine Learning?

Two definitions of Machine Learning are offered. Arthur Samuel described it as: "the field of study that gives computers the ability to learn without being explicitly programmed." This is an older, informal definition.

Tom Mitchell provides a more modern definition: "A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P, if its performance at tasks in T, as measured by P, improves with experience E."

Example: playing checkers.

E = the experience of playing many games of checkers

T = the task of playing checkers.

P = the probability that the program will win the next game.

In general, any machine learning problem can be assigned to one of two broad classifications:

Supervised learning and Unsupervised learning.

✓ Complete

Go to next item







Q