



Machine Learning

by Stanford University



Andrew Ng



Welcome to Machine Learning! I'm excited to have you in the class and look forward to helping you become an expert in machine learning.

After you finish watching the Week 1 lectures, there's also a set of Review Questions to help you check your understanding. You should be able to complete the review questions in a few minutes. You can attempt the review questions as many times as you like, and we will only use your highest score.

This machine learning class was the class that had started Coursera. I'm excited to be teaching it again. By the time you finish this class, you'll know how to apply the most advanced machine learning algorithms to such problems as anti-spam, image recognition, clustering, building recommender systems, and many other problems. You'll also know how to select the right algorithm for the right job, as well as become expert at 'debugging' and figuring out how to improve a learning algorithm's performance.

I hope you'll have a lot of fun learning about machine learning.

Andrew

^ Less



Congratulations!

You've successfully completed Machine Learning

[View your certificate.](#)



WEEK 1



Help Center

Introduction

Videos Done

Readings Done

REQUIRED	GRADE	DUE
<div><div></div><div>Quiz Introduction 10 min</div></div>	100%	Oct 23

Linear Regression with One Variable

Videos Done

Readings Done

REQUIRED	GRADE	DUE
<div><div></div><div>Quiz Linear Regression with One Variable 10 min</div></div>	80%	Oct 23

Linear Algebra Review

Videos Done

Readings Done

Practice Exercises Done



Nothing due

Help Center


✓ WEEK 2



Linear Regression with Multiple Variables

Videos Done

Readings 20 min left

REQUIRED	GRADE	DUE
 Quiz Linear Regression with Multiple Variables 10 min	100%	Oct 30

Octave/Matlab Tutorial

Videos Done

Readings Done

REQUIRED	GRADE	DUE
 Quiz Octave/Matlab Tutorial 10 min	80%	Oct 30
 Programming Assignment Linear Regression 3h	100%	Oct 30


✓ WEEK 3



Logistic Regression

Videos Done


Readings 20 min left

REQUIRED	GRADE	DUE
 Quiz Logistic Regression 10 min	100%	Nov 6

Regularization

Videos Done

Readings 12 min left

REQUIRED	GRADE	DUE
 Quiz Regularization 10 min	80%	Nov 6
 Programming Assignment Logistic Regression 3h	100%	Nov 6



✓ WEEK 4



Neural Networks: Representation

Videos Done

Readings 20 min left

REQUIRED	GRADE	DUE
 Quiz Neural Networks: Representation 10 min	80%	Nov 13
 Programming Assignment Multi-class Classification and Neural Networks 3h	100%	Nov 13

✓ WEEK 5



Neural Networks: Learning

Videos Done

Readings 31 min left



REQUIRED	GRADE	DUE
 Quiz Neural Networks: Learning 10 min	100%	Nov 20
 Programming Assignment Neural Network Learning 3h	100%	Nov 20

✓ WEEK 6



Advice for Applying Machine Learning

Videos	Done
Readings	Done

REQUIRED	GRADE	DUE
 Quiz Advice for Applying Machine Learning 10 min	80%	Nov 27
 Programming Assignment Regularized Linear Regression and Bias/Variance 3h	100%	Nov 27

Machine Learning System Design

Videos	Done
Readings	Done

REQUIRED	GRADE	DUE
 Quiz Machine Learning System Design 10 min	100%	Nov 27

Help Center



WEEK 7



Support Vector Machines

Videos Done

Readings Done

REQUIRED	GRADE	DUE
 Quiz Support Vector Machines 10 min	100%	Dec 4
 Programming Assignment Support Vector Machines 3h	100%	Dec 4



WEEK 8



Unsupervised Learning

Videos Done

Readings Done

REQUIRED	GRADE	DUE
 Quiz Unsupervised Learning 10 min	80%	Dec 11

Dimensionality Reduction

Videos Done

Readings Done

REQUIRED	GRADE	DUE
 Quiz Principal Component Analysis 10 min	80%	Dec 11
 Programming Assignment K-Means Clustering and PCA 3h	100%	Dec 11

✓ WEEK 9





Anomaly Detection

Videos	Done
Readings	Done

REQUIRED	GRADE	DUE
 Quiz Anomaly Detection 10 min	100%	Dec 18

Recommender Systems

Videos	Done
Readings	Done

REQUIRED	GRADE	DUE
 Quiz Recommender Systems 10 min	80%	Dec 18
 Programming Assignment Anomaly Detection and Recommender Systems 3h	100%	Dec 18

Help Center



WEEK 10



Large Scale Machine Learning

Videos Done

Readings Done

REQUIRED

GRADE

DUE



Quiz
Large Scale Machine Learning
10 min

100%

Dec 25



WEEK 11



Application Example: Photo OCR

Videos Done

Readings Done

REQUIRED

GRADE

DUE



Quiz
Application: Photo OCR
10 min

100%

Jan 1

Yes, I'd like to receive email about other programs from **Stanford University**.

Yes



Help Center