



Machine Learning

by Stanford University



WEEK 11

Video: Problem Description and Pipeline

It'll take about 7 min. After you're done, continue on and try finishing the week ahead of schedule.

7 min

Start

✓ **WEEK 1**

Introduction

Videos Done

Readings Done

REQUIRED

★ **Quiz**
Introduction
10 min

GRADE

100%

DUE

Dec 18

Linear Regression with One Variable

Videos Done

Readings Done

REQUIRED

★ **Quiz**
Linear Regression with One Variable
10 min

GRADE

100%

DUE

Dec 18

Linear Algebra Review

Videos **1h left**

Readings Done

Practice Exercises **10 min left**



Nothing due



WEEK 2



Linear Regression with Multiple Variables

Videos Done

Readings Done

Other 5 min left

REQUIRED

GRADE

DUE



Quiz

Linear Regression with Multiple Variables
10 min

100%

Dec 25

Octave/Matlab Tutorial

Videos Done

Readings Done

REQUIRED

GRADE

DUE



Quiz

Octave/Matlab Tutorial
10 min

100%

Dec 25



Programming Assignment

Linear Regression
3h

100%

Dec 25



WEEK 3



Logistic Regression

Videos Done

Readings Done

Other 5 min left

REQUIRED

GRADE

DUE



Quiz

Logistic Regression
10 min

80%

Jan 1

Regularization

Videos Done



Readings Done



REQUIRED


GRADE

DUE

 Quiz Regularization 10 min	100%	Jan 1
 Programming Assignment Logistic Regression 3h	100%	Jan 1

✓	WEEK 4	^
Neural Networks: Representation		
	Videos	Done
	Readings	Done
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REQUIRED	GRADE	DUE
 Quiz Neural Networks: Representation 10 min	80%	Jan 8
 Programming Assignment Multi-class Classification and Neural Networks 3h	100%	Jan 8

✓	WEEK 5	^
Neural Networks: Learning		
	Videos	Done
	Readings	Done
	Other	5 min left
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REQUIRED	GRADE	DUE
 Quiz Neural Networks: Learning 10 min	100%	Jan 15
 Programming Assignment Neural Network Learning 3h	100%	Jan 15

✓	WEEK 6	^
Advice for Applying Machine Learning		
	Videos	Done
	Readings	Done
	Other	5 min left
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REQUIRED	GRADE	DUE
 Quiz Advice for Applying Machine Learning 10 min	100%	Jan 22

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Programming Assignment

Regularized Linear Regression and Bias/Variance

3h

100%

Jan 22

Machine Learning System Design

Videos

Done

Readings

6 min left

REQUIRED

GRADE

DUE

| ★ Quiz Machine Learning System Design 10 min | 80% | Jan 22 |

✓

WEEK 7

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Support Vector Machines

Videos

Done

Readings

Done

REQUIRED

GRADE

DUE

| ★ Quiz Support Vector Machines 10 min | 100% | Jan 29 |
| ⌕ 📄 Programming Assignment Support Vector Machines 3h | 100% | Jan 29 |

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WEEK 8

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Unsupervised Learning

Videos

Done

Readings

Done

REQUIRED

GRADE

DUE

| ★ Quiz Unsupervised Learning 10 min | 100% | Feb 5 |

Dimensionality Reduction

Videos

Done

Readings


Done

REQUIRED

GRADE

DUE

| ★ Quiz Principal Component Analysis 10 min | 100% | Feb 5 |

 **Programming Assignment**
K-Means Clustering and PCA
3h

100% Feb 5

✓ WEEK 9





Anomaly Detection

Videos Done
Readings Done

REQUIRED	GRADE	DUE
 Quiz Anomaly Detection 10 min	100%	Feb 12

Recommender Systems

Videos Done
Readings Done

REQUIRED	GRADE	DUE
 Quiz Recommender Systems 10 min	100%	Feb 12
 Programming Assignment Anomaly Detection and Recommender Systems 3h	100%	Feb 12

✓ WEEK 10




Large Scale Machine Learning

Videos Done
Readings Done

REQUIRED	GRADE	DUE
 Quiz Large Scale Machine Learning 10 min	80%	Feb 19

WEEK 11

Estimated time: 1h 16m 

Application Example: Photo OCR

Videos 56 min left
Readings 10 min left

REQUIRED	GRADE	DUE
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