


# Your progress

## Course completion

This represents how much of the course content you have completed. Note that some content may not yet be released.



95% completed

### Related links

- [Dates](#)  
A schedule view of your course due dates and upcoming assignments.
- [Course Outline](#)  
A birds-eye view of your course content.

## Grades

This represents your weighted grade against the grade needed to pass this course.

Your current grade

50%

Passing grade

You're currently passing this course with a grade of B (70-85%)

### Grade summary

Assignment type	Weight	Grade	Weighted grade
Final Exam	20%	0%	0%
Engagement	10%	98%	10%
Comprehension Quiz	10%	100%	10%
Problem Sets <sup>1</sup>	30%	100%	30%
Programming Assignments <sup>2</sup>	30%	100%	30%
Your current weighted grade summary			80%

<sup>1</sup>The lowest 2 Problem Sets scores are dropped.

<sup>2</sup>The lowest 2 Programming Assignments scores are dropped.

### Detailed grades

Introduction and Course Information	Score
<div><div>▲</div><div><a href="#">How This Course is Run</a></div><div>Problem Scores: 1/1 1/1 1/1 1/1</div></div> <div>4/4</div>	
<div><div>▲</div><div><a href="#">Syllabus</a></div><div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div></div> <div>8/8</div>	
<div><div>▼</div><div><a href="#">Getting to Know You</a></div></div> <div>0/1</div>	

Week 1: Prediction Problems

Score

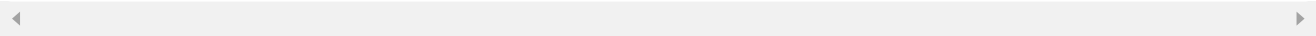
<div>▲ <a href="#">1.1 Introduction to Machine Learning</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">1.2 Nearest Neighbor Classification</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">1.3 Improving the Performance of Nearest Neighbor</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">1.4 Useful Distance Functions for Machine Learning</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">1.5 A Host of Prediction Problems</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">Problem Set 1</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 3/3 2/2 5/5 3/3 1/1 2/2 2/2 1/1 0/0 0/0 3/3 3/3 3/3 1/1 3/3 1/1 4/4</div>	43/43
<div>▲ <a href="#">Programming Assignment 1</a></div> <div>Problem Scores: 2/2 1/1 1/1 1/1</div>	5/5
<div>▲ <a href="#">Comprehension Quiz 1</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div>	12/12



Week 2: Generative Modeling I

Score

<div>▲ <a href="#">2.1 The Generative Approach to Classification</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">2.2 Probability Review I: Probability Spaces, Events, and Conditioning</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">2.3 Generative Modeling in One Dimension</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">2.4 Probability Review II: Random Variables, Expectation, and Variance</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">2.5 Probability Review III: Measuring Dependence</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">2.6 Two Dimensional Generative Modeling with the Bivariate Gaussian</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">Problem Set 2</a></div> <div>Problem Scores: 1/1 1/1 3/3 3/3 3/3 1/1 2/2 1/1 2/2 2/2 1/1 5/5 4/4 2/2 1/1 4/4 2/2 2/2 2/2 3/3</div>	45/45
<div>▲ <a href="#">Programming Assignment 2</a></div> <div>Problem Scores: 3/3 1/1 1/1 1/1 0/0 3/3 3/3 1/1 1/1 1/1 3/3</div>	18/18
<div>▲ <a href="#">Comprehension Quiz 2</a></div> <div>Problem Scores: 1/1 1/1 1/1 3/3 1/1 1/1 3/3 2/2 1/1 1/1 4/4 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div>	26/26



▲ [3.1 Linear Algebra I: Basic Notation and Dot Products](#)

1/1

Problem Scores: 1/1

▲ [3.2 Linear Algebra II: Matrix Products and Linear Functions](#)

1/1

Problem Scores: 1/1

▲ [3.3 Linear Algebra III: Square Matrices as Quadratic Functions](#)

1/1

Problem Scores: 1/1

▲ [3.4 The Multivariate Gaussian](#)

1/1

Problem Scores: 1/1

▲ [3.5 Gaussian Generative Models](#)

1/1

Problem Scores: 1/1

▲ [3.6 More Generative Modeling](#)

1/1

Problem Scores: 1/1

▲ [Problem Set 3](#)

66/66

Problem Scores: 1/1 3/3 2/2 2/2 1/1 1/1 1/1 1/1 1/1 3/3 3/3 4/4 3/3  
1/1 5/5 1/1 2/2 4/4 7/7 1/1 2/2 2/2 1/1 1/1 1/1 1/1  
1/1 3/3 2/2 5/5

▲ [Programming Assignment 3](#)

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Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1

▲ [Comprehension Quiz 3](#)

27/27

Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1  
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1

Week 4: Linear Regression and Probability Estimation

Score

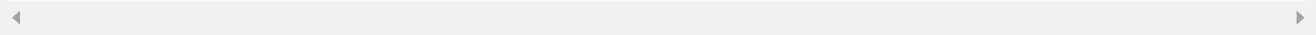
<div><div>▲</div><div><a href="#">4.1 An Introduction to Linear Regression</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">4.2 Linear Regression</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">4.3 Regularized Linear Regression</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">4.4 Linear Models for Conditional Probability Estimation</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">4.5 Logistic Regression</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">4.6 Logistic Regression in Use</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">Problem Set 4</a></div></div>	41/41
Problem Scores: 6/6 4/4 3/3 5/5 1/1 1/1 4/4 1/1 2/2 4/4 1/1 1/1 3/3 1/1 1/1 1/1 1/1 1/1	
<div><div>▲</div><div><a href="#">Programming Assignment 4</a></div></div>	6/6
Problem Scores: 1/1 2/2 1/1 1/1 1/1	
<div><div>▲</div><div><a href="#">Comprehension Quiz 4</a></div></div>	16/16
Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1	



Week 5: Optimization and Geometry

Score

<div><div>▲</div><div><a href="#">5.1 Unconstrained Optimization I</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">5.2 Unconstrained Optimization II</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">5.3 Unconstrained Optimization III</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">5.4 Convexity I</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">5.5 Linear algebra IV: Positive Semidefinite Matrices</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">5.6 Convexity II</a></div></div>	1/1
Problem Scores: 1/1	
<div><div>▲</div><div><a href="#">Problem Set 5</a></div></div>	28/28
Problem Scores: 1/1 6/6 1/1 2/2 7/7 1/1 1/1 1/1 1/1 1/1 1/1 2/2 3/3	
<div><div>▲</div><div><a href="#">Programming Assignment 5</a></div></div>	3/3
Problem Scores: 1/1 1/1 1/1	
<div><div>▲</div><div><a href="#">Comprehension Quiz 5</a></div></div>	19/19
Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1	



▲ <a href="#">6.1 A Simple Linear Classifier</a>	1/1
Problem Scores: 1/1	
▲ <a href="#">6.2 Support Vector Machines I</a>	1/1
Problem Scores: 1/1	
▲ <a href="#">6.3 Support Vector Machines II</a>	1/1
Problem Scores: 1/1	
▲ <a href="#">6.4 Duality</a>	1/1
Problem Scores: 1/1	
▲ <a href="#">6.5 Multiclass Linear Prediction</a>	1/1
Problem Scores: 1/1	
▲ <a href="#">Problem Set 6</a>	35/35
Problem Scores: 3/3 1/1 1/1 1/1 1/1 1/1 5/5 4/4 4/4 4/4 1/1 1/1 1/1 4/4 1/1 2/2	
▲ <a href="#">Programming Assignment 6</a>	4/4
Problem Scores: 1/1 1/1 0/0 1/1 1/1	
▲ <a href="#">Comprehension Quiz 6</a>	15/15
Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1	

Week 7: Combining Simple Classifiers

Score

▲ [7.1 Kernels I: Basis Expansion](#)

1/1

Problem Scores: 1/1

▲ [7.2 Kernels II: The Kernel Trick](#)

1/1

Problem Scores: 1/1

▲ [7.3 Kernels III: Kernel SVM](#)

1/1

Problem Scores: 1/1

▲ [7.4 Kernels IV: The Kernel Function](#)

1/1

Problem Scores: 1/1

▲ [7.5 Combining Simple Classifiers](#)

1/1

Problem Scores: 1/1

▲ [7.6 Decision Trees](#)

1/1

Problem Scores: 1/1

▲ [7.7 Boosting](#)

1/1

Problem Scores: 1/1

▲ [7.8 Random Forests](#)

1/1

Problem Scores: 1/1

▲ [Problem Set 7](#)

28/28

Problem Scores: 1/1 1/1 2/2 1/1 1/1 3/3 1/1 1/1 1/1 3/3 1/1 1/1 1/1  
1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1

▲ [Programming Assignment 7](#)

4/5

Problem Scores: 1/1 1/1 1/1 0/1 1/1

▲ [Comprehension Quiz 7](#)

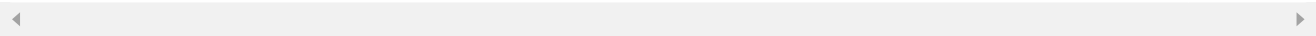
14/14

Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1

Week 8: Representation Learning I

Score

<div>▲ <a href="#">8.1 Representation Learning</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">8.2 Clustering with the k-Means Algorithm I</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">8.3 Clustering with the k-Means Algorithm II</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">8.4 Clustering with Mixtures of Gaussians</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">8.5 Hierarchical Clustering</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">Problem Set 8</a></div> <div>Problem Scores: 4/4 4/4 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 0/0 1/1 1/1 1/1</div>	20/20
<div>▲ <a href="#">Programming Assignment 8</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1</div>	4/4
<div>▲ <a href="#">Comprehension Quiz 8</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div>	9/9



Week 9: Representation Learning II

Score

<div>▲ <a href="#">9.1 Linear Projections</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">9.2 Principal Component Analysis I: One Dimensional Projection</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">9.3 Principal Component Analysis II: The Top k Directions</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">9.4 Case Study: Personality Assessment</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">9.5 Linear Algebra V: Eigenvalues and Eigenvectors</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">9.6 Linear Algebra VI: Spectral Decomposition</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">Problem Set 9</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 3/4 1/1 8/8 1/1 2/2 2/2 6/6 7/7 1/1 1/1 1/1</div>	39/40
<div>▲ <a href="#">Programming Assignment 9</a></div> <div>Problem Scores: 1/1 2/2 1/1 1/1</div>	5/5
<div>▲ <a href="#">Comprehension Quiz 9</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div>	12/12



Week 10: Deep Learning	Score
<div>▲ <a href="#">10.1 Autoencoders</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">10.2 Distributed Representations</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">10.3 Feedforward Neural Networks</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">10.4 Training Neural Networks</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">10.5 What We Skipped</a></div> <div>Problem Scores: 1/1</div>	1/1
<div>▲ <a href="#">Problem Set 10</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div>	14/14
<div>▲ <a href="#">Programming Assignment 10</a></div> <div>Problem Scores: 1/1 1/1 1/1</div>	3/3
<div>▲ <a href="#">Comprehension Quiz 10</a></div> <div>Problem Scores: 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1 1/1</div>	10/10
<div></div>	
For progress on ungraded aspects of the course, view your <a href="#">Course Outline</a> .	



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