

Machine Learning with Python-From Linear Models to Deep Learning

<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Resources</u>

☆ Course / Unit 1. Linear Classifiers and Generaliza... / Lecture 1. Introduction to



6. Introduction to Classifiers: Let's bring in some geometry!

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Exercises due Feb 15, 2023 08:59 -03 Completed

Introduction to Linear Classifiers



Video

♣ Download video file

Transcripts

- ▲ Download SubRip (.srt) file
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Training data can be graphically depicted on a (hyper)plane. Classifiers are mappings vectors as input and produce labels as output. A common kind of classifier is the linearly divides space(the (hyper)plane where training data lies) into two. Given a point classifier h outputs h(x) = 1 or h(x) = -1, depending on where the point x exists linearly divided spaces.

Linear Classifier

1/1 point (graded)

We have a linear classifier h that takes in any point on a two-dimensional space. The line two-dimensional space into two, such that on one side $h\left(x\right)=+1$ and on the oth depicted below.

where can riger the annotated shoes; moreover which text book are we following for the given course;

Is this a correct way to think about training error?

Am I right with the way I think about how to calculate training error?

Ξ

What are y(i) labels? vectors or scalar values?

In the lecture (1:40-1:50) Professor said: "... We have four training examples. It is a collection of pairs of those

What does it mean to make the "hypothesis class" too large?

Hi folks! At 12:27, professor Jaakkola says: "And the problem here is that in allowing these classifiers that wra

The warning about the model being too complex

The success of deep neural networks to correctly generalize many tasks seems to demonstrate that the claim

I havent finished watching the video but why is the graphic displaying x1 and x2? what are the components of x? like different categories say how much red or green a window is?

If so, this should be explained.. I feel so many teachers in MIT are so brilliant that they just dont think about t

Training Error

I am having issue with 2nd question, Training error. pls help

Wording on 2nd question

The second question asks "What is the **training error?** Is it **better** than chance?" and on the options v

<u>Linear classifier divides the space into 2 halves?</u>

I don't fully follow the above statement. Why necessarily halves? Does this imply that the two parts are equa

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