

## 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 Generalizat... / Lecture 2. Linear Classifiers

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## 2. Review of Basic Concepts

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

#### **Review of Basic Concepts**



#### Video

**♣** Download video file

#### **Transcripts**

- ▲ Download SubRip (.srt) file
- **▲** Download Text (.txt) file

$$ig[ig[Aig]ig]$$
 either takes value  $1$  or  $0$  depending on whether  $A$  is True or False. For example,  $ig[ig[1=1ig]ig]=1$ , and  $ig[ig[1
eq 3ig]ig]=1$ 

### Concept Review Problem: car accident prediction 1

1/1 point (graded)

In this problem, we will put ourselves in the shoes of a car insurance company. Our goad customers were involved in an accident on July 4th, 1998.

For 8 customers, we know the following information:

- 1. number of accidents the customer made in the past.
- 2. number of miles the customer has driven.

	number of past accidents	miles customer drove so far	С
customer 1	0	2710.9	
customer 2	2	13209.2	
customer 3	1	89001.4	
customer 4	3	12381.1	
customer 5	0	1893.5	
customer 6	2	32493.5	
customer 7	1	5443.5	
customer 8	0	4493.5	

What is the dimension of each feature vector?

Submit

3

You have used 1 of 3 attempts

#### Concept Review Problem: car accident prediction 3

8

1/1 point (graded)

How many feature vectors are there in the above table?

Submit

You have used 1 of 3 attempts

## Concept Review Problem: Classifier and Training Error 1

1/1 point (graded)

Assume we have training data and a classifier like the following: (where the classifier with the data point as input) denotes

Concept Review Problem: Classifier and Training Error 2

1/1 point (graded)
Now let's examine the training error in a general sense. is a function of: (

✓ , the number of training data

✓ the number of test data

✓ Previous

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