7. Prediction

Exercises due Apr 19, 2023 08:59 -03 Completed

Prediction

0:00 / 0:00 1.0x

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Predictions of a Generative Multinomial Model

1/1 point (graded)

Consider using a multinomial generative model M for the task of binary classification o which are denoted by + (positive class) and - (negative class).

Let the parameters of M that maximize the likelihood of training data for the positive c and for the negative class be denoted by θ^-.

Also, suppose that we classify a new document D to belong to the positive class iff

$$\log \frac{P(D|\theta^+)}{P(D|\theta^-)} \geq 0$$

where

Submit You have used 1 of 2 attempts

Linear Classifier of the Generative Multinomial Model

0/1 point (graded)

Consider the prediction classifier for the two classes and introduced in the abov problem, let and represent the classes and , respectively.

Let . Let and .

We see the following document . To what class wo document to using the linear classifier for the generative multinomial model? (Type "0" for class 1 (-))

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