

MITx 6.86x

Machine Learning with Python-From Linear Models to Deep Learning

Course **Progress** Discussion Dates Resources

A Course / Unit 4. Unsupervised Learning (2 weeks) / Lecture 15. Generative Mo



7. Prediction

☐ Bookmark this page

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

Prediction



Video

♣ Download video file

Transcripts

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

Predictions of a Generative Multinomial Model

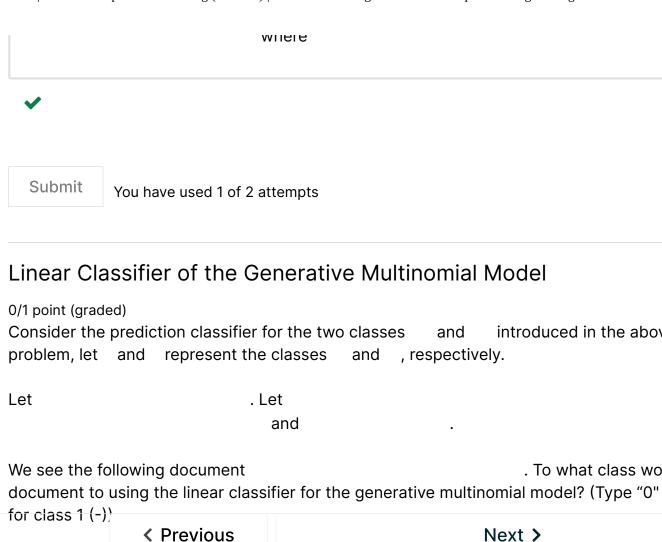
1/1 point (graded)

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

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

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

$$\log rac{P\left(D| heta^{+}
ight)}{P\left(D| heta^{-}
ight)} \geq 0$$





edX

<u>About</u>

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

Privacy Policy

Accessibility Policy

Trademark Policy













© 2023 edX LLC. All rights reserved.

深圳市恒宇博科技有限公司 <u>粤ICP备17044299号-2</u>