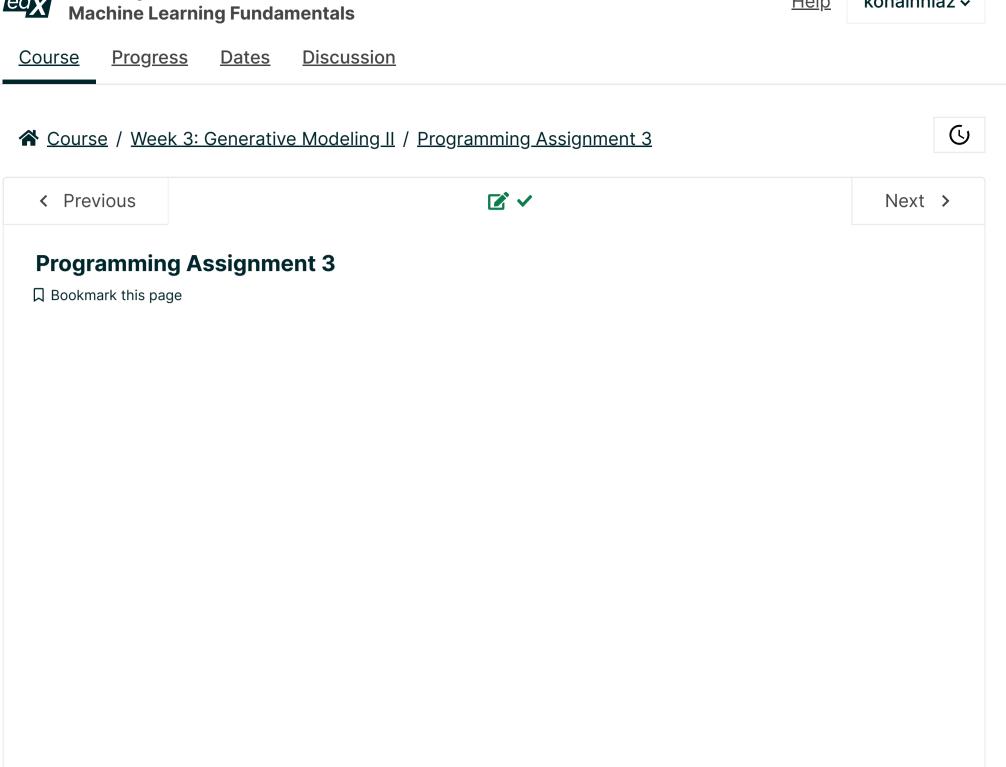


<u>Help</u>

konainniaz 🗸



Programming Assignments due Jul 12, 2022 06:35 PKT Completed

Click this link to download the Winery Classification notebook and then complete problem 1-5.

Click this link to download the <u>Gaussian Generative-MNIST notebook</u> and then complete problems 6-8.

Problem 1

1/1 point (graded)

This problem is based on the *Winery classification notebook*. You should work through that notebook and then enter answers here.

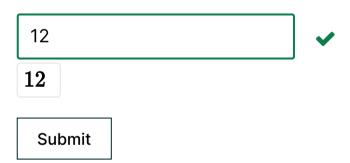
How many errors (out of 48) are made on the test set when using the single feature 'Ash'?



Problem 2

1/1 point (graded)

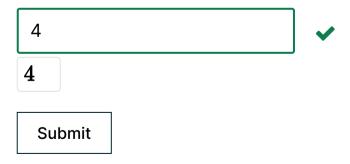
How many errors when using 'Alcohol' and 'Ash'?



Problem 3

1/1 point (graded)

How many errors when using 'Alcohol', 'Ash', and 'Flavanoids'?



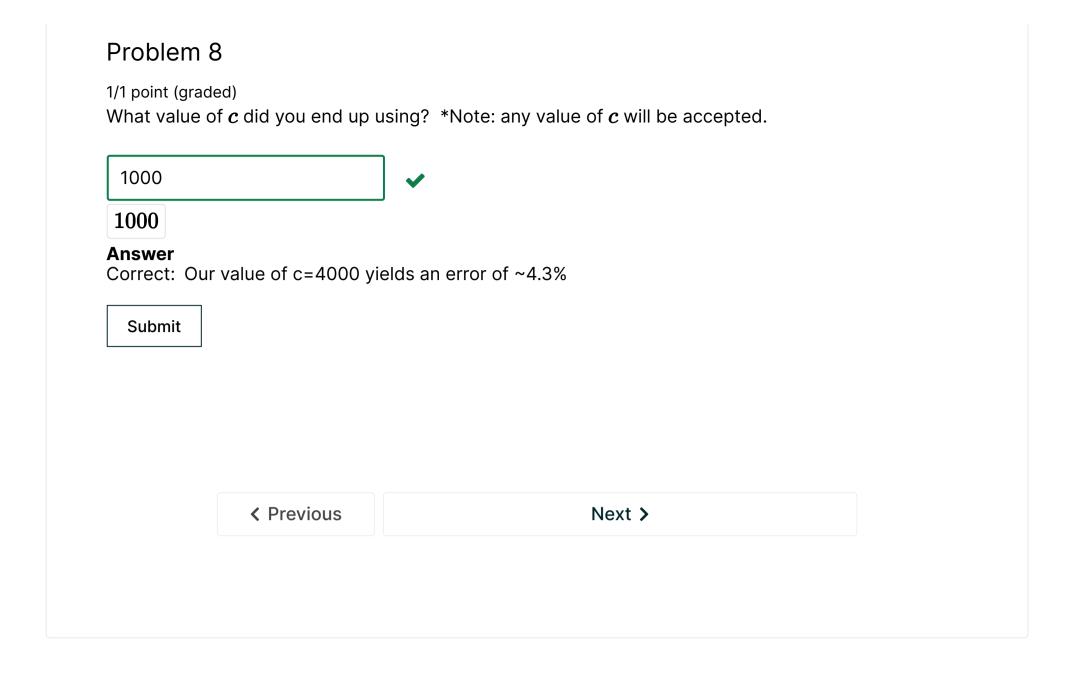
Problem 4

1/1 point (graded)

How many errors when using all the features?



Submit
Problem 5
1/1 point (graded) In lecture, we got zero errors on the test set when using all the features. Why might this be?
O In the example from lecture, the Gaussians were fit to the entire data (both training and test).
• In the example from lecture, a different split of the data (into training set and test set) was used.
O In the example from lecture, a different procedure was used for fitting a Gaussian generative model.
Submit
Problem 6
1/1 point (graded) This problem is based on the <i>Gaussian generative MNIST notebook</i> . You should complete that notebook and then enter answers here.
What happens if you do not regularize the covariance matrix? Select all that apply.
The displayed mean vectors are different.
The procedure fit_generative_model generates an error message.
The procedure for computing the test error generates an error message.
✓
Submit
Problem 7
1/1 point (graded) What happens if you set the value of $m{c}$ too high, for instance to one billion? Select all that apply.
The procedure fit_generative_model generates an error message.
The procedure for computing the test error generates an error message.
The test error approaches that of a random classifier.
✓
Submit



© All Rights Reserved



edX

About

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

<u>Privacy Policy</u>

Accessibility Policy

Trademark Policy

<u>Sitemap</u>

Connect

<u>Blog</u>

Contact Us

Help Center

Media Kit















© 2022 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>