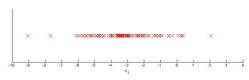
otal points 5	
, For which of the following problems would anomaly detection be a suitable algorithm?	1 po
Given data from credit card transactions, classify each transaction according to type of purchase (for example: food, transportation, clothing).	
Given an image of a face, determine whether or not it is the face of a particular famous individual.	
From a large set of primary care patient records, identify individuals who might have unusual health conditions.	
Given a dataset of credit card transactions, identify unusual transactions to flag them as possibly fraudulent.	
Suppose you have trained an anomaly detection system that flags anomalies when $p(x)$ is less than ε , and you find on the cross-validation set that it has too many false negatives (falling to flag a lot of anomalies). What should you do?	1 po
○ Decrease ¢	
⑥ Increase ε	
Suppose you are developing an anomaly detection system to catch manufacturing defects in airplane engines. You model uses	1 po
$p(x) = \prod_{j=1}^{n} p(x_j; \mu_j, \sigma_j^2).$	
You have two features x_1 = vibration intensity, and x_2 = these generated. Both x_1 and x_2 take on values between 0 and 1 (and are strictly greater than 0), and for most "normal" engines you expect that $x_1 \approx x_2$. One of the suspected anomalies is that a flawed engine may vibrate very intensely even without generating much heat (large x_1 , small x_2), even though the particular values of x_1 and x_2 may not fall outside their typical ranges of values. What additional feature x_2 should you create to capture these types of anomalies:	
$\bigcirc \ x_3 = \frac{1}{x_i}$	
$\bigcirc \ x_3 = x_1 + x_2$	
\bigcirc $z_3=rac{1}{z_2}$	
Which of the following are true? Check all that apply.	1 po
$ \begin{tabular}{l} tab$	
✓ When choosing features for an anomaly detection system, it is a good idea to look for features that take on unusually large or small values for (mainly the) anomalous examples.	
if you are developing an anomaly detection system, there is no way to make use of labeled data to improve your system.	
If you have a large labeled training set with many positive examples and many negative examples, the	





Suppose you fit the gaussian distribution parameters μ_1 and σ_1^2 to this dataset. Which of the following values for μ_1 and σ_1^2 might you get?

$$\mu_1 = -6, \sigma_1^2 = 4$$

$$\bigcirc \ \mu_1=-3, \sigma_1^2=2$$

$$\mu_1 = -6, \sigma_1^2 = 2$$

Coursera Honor Code Learn more

1, Vamshi Nenavath, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.



Save draft





🛆 Like 🖓 Dislike 🏳 Report an issue