Edx machine learning course answers

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Math Expression Input
2/2 points (graded)

Find a symbolic expression for the displacement of the blade mid-section, $u_x(L/2)$, in terms of R, L, ρ, ω, and E.
$u_x(L/2) =$

(rho*omega^2*L^2)/E*((

$$\frac{\rho \cdot \omega^2 \cdot L^2}{E} \cdot \left(\frac{11 \cdot L}{48} + \frac{3 \cdot R}{8}\right)$$

Find a symbolic expression for the blade elongation δ in terms of R, L, ρ, ω, and E.
$\delta =$

(rho*omega^2)/E*((L^3)/

$$\frac{\rho \cdot \omega^2}{E} \cdot \left(\frac{L^3}{3} + \frac{R \cdot L^2}{2}\right)$$

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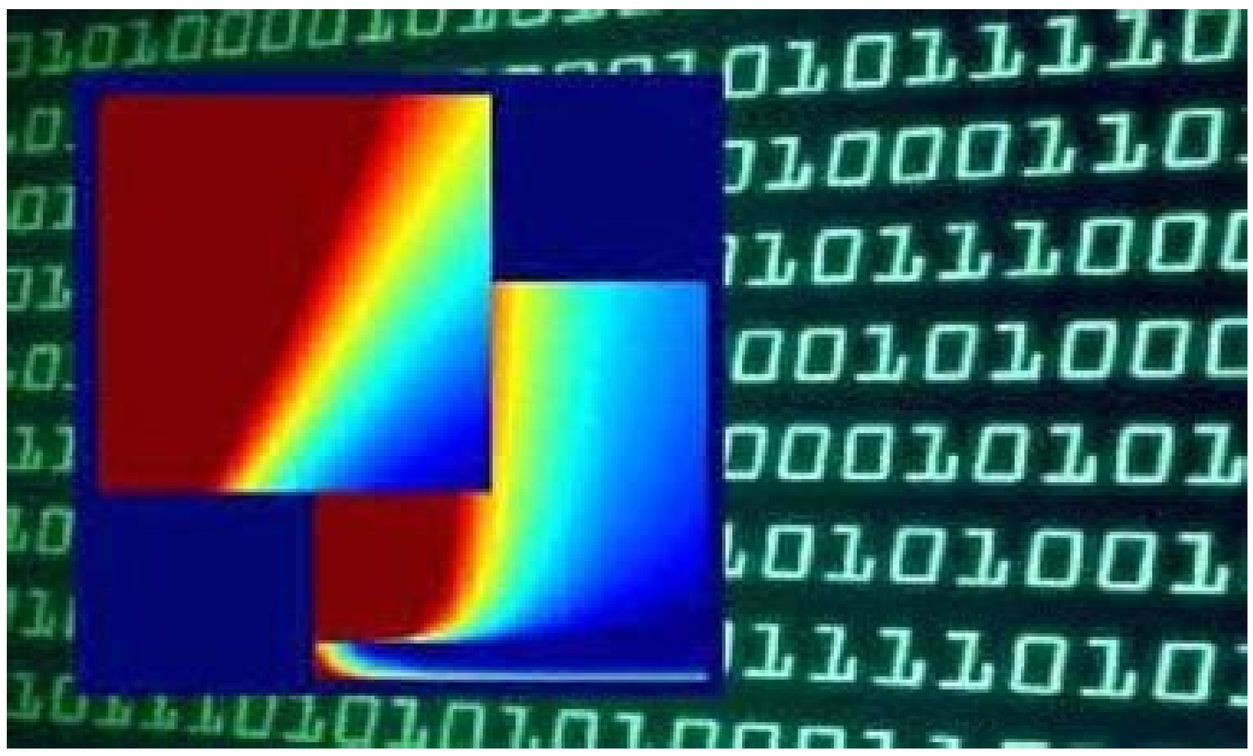
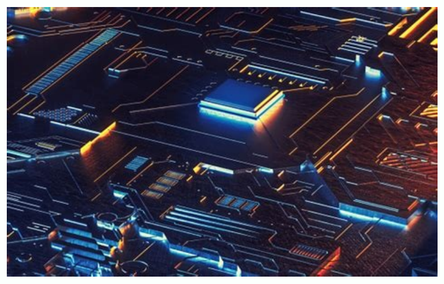
Correct (2/2 points)





Tieumsan/**MITx-6.86-MachineLearning_EdX**

Repository of the different projects and self-study done during the MITx 6.86: Machine Learning with Python-From Linear Models to Deep...

1 Contributor 0 Issues 0 Stars 1 Fork

About the instructors

Sanjoy Dasgupta

Professor of Computer Science and Engineering • UC San Diego

BitDegree

Can you fail an edx course. Can you retake an edx course.

You may have noticed in the LMS that there's a little button labelled Show Answer in the bottom right of each problem. What's the deal with that? Can we decide when that appears? The short answer is yes - let's take a look at how it's done. First find your problem in Studio and hit the Edit button Next go to the Settings tab and scroll down to Show Answer Finally, simply set this dropdown to the value that you wish to use, which are defined as follows: Always - Always display the button Answered - Display the button when the learner has correctly answered the problem Attempted - Display the button when the learner has attempted the problem (regardless of whether they got it right or wrong) Closed - Display the button if all attempts have been used or the due date has passed Finished - Display the button if they have answered correctly, all attempts have been used, or the due date has passed Correct or Past due - Display the button if they have answered correctly or the due date has passed Past due - Display the button only after the due date has passed Never - Never display the button Save your changes and publish them to see them in the LMS It is important to note that whenever you view the LMS as a Staff member, you will typically be able to see the Show Answer button regardless of this setting. If you want to check your questions are configured correctly, make sure you view the course as a student by selecting Student from the 'View this course as:' dropdown menu at the top of the LMS. Setting the default You may find while building your course, that you want to set the default state for this setting to something other than Finished, which is the normal default. To do this, enter Studio and select Settings > Advanced Settings from the menu at the top Once on the advanced settings page, press Command/CTRL (Depending on operating system) and the F key and search the page for the words "Show Answer", or simply scroll down the page until you see the Show Answer setting. The page is alphabetical, so it appears considerably towards the bottom of the page. Simply change the word "finished" to another value as written beneath the field, for example to set the default to Always, this value should be "always", in lower case, including the quotes. Once you're done, hit the Save Changes button that appears at the bottom of the page to finalize your changes. From this point on, any problem you insert will by default have the Show Answer setting set to the state you have chosen. If you have any issues with this feature, as always, feel free to contact Support by using the link below. HomeArtificial Intelligence byAkshay Daga (APDaga) -April 25, 2021 Progress at your own speedOptional upgrade availablePerhaps the most popular data science methodologies come from machine learning. What distinguishes machine learning from other computer guided decision processes is that it builds prediction algorithms using data. Some of the most popular products that use machine learning include the handwriting readers implemented by the postal service, speech recognition, movie recommendation systems, and spam detectors. In this course,part ofourProfessional Certificate Program in Data Science, you will learn popular machine learning algorithms, principal component analysis, and regularization by building a movie recommendation system. You will learn about training data, and how to use a set of data to discover potentially predictive relationships. As you build the movie recommendation system, you will learn how to train algorithms using training data so you can predict the outcome for future datasets. You will also learn about overtraining and techniques to avoid it such as cross-validation. All of these skills are fundamental to machine learning. The basics of machine learning How to perform cross-validation to avoid overtraining Several popular machine learning algorithms How to build a recommendation system What is regularization and why it is useful? Honor code statement HarvardX requires individuals who enroll in its courses on edX to abide by the terms of the edX honor code. 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Major perspectives covered include: probabilistic versus non-probabilistic modeling supervised versus unsupervised learning Topics include: classification and regression, clustering methods, sequential models, matrix factorization, topic modeling and model selection. Methods include: linear and logistic regression, support vector machines, tree classifiers, boosting, maximum likelihood and MAP inference, EM algorithm, hidden Markov models, Kalman filters, k-means, Gaussian mixture models, among others. In the first half of the course we will cover supervised learning techniques for regression and classification. In this framework, we possess an output or response that we wish to predict based on a set of inputs. We will discuss several fundamental methods for performing this task and algorithms for their optimization. Our approach will be more practically motivated, meaning we will fully develop a mathematical understanding of the respective algorithms, but we will only briefly touch on abstract learning theory. In the second half of the course we shift to unsupervised learning techniques. In these problems the end goal less clear-cut than predicting an output based on a corresponding input. We will cover three fundamental problems of unsupervised learning: data clustering, matrix factorization, and sequential models for order-dependent data. Some applications of these models include object recommendation and topic modeling.Institution: ColumbiaXSubject: Computer ScienceLevel: AdvancedPrerequisites: Calculus Linear algebra Probability and statistical concepts Coding and comfort with data manipulation Language: EnglishVideo Transcript: English Supervised learning techniques for regression and classification Unsupervised learning techniques for data modeling and analysis Probabilistic versus non-probabilistic viewpoints Optimization and inference algorithms for model learning Week 1: maximum likelihood estimation, linear regression, least squares Week 2: ridge regression, bias-variance, Bayes rule, maximum a posteriori inference Week 3: Bayesian linear regression, sparsity, subset selection for linear regression Week 4: nearest neighbor classification, Bayes classifiers, linear classifiers, perceptron Week 5: logistic regression, Laplace approximation, kernel methods, Gaussian processes Week 6: maximum margin, support vector machines, trees, random forests, boosting Week 7: clustering, k-means, EM algorithm, missing data Week 8: mixtures of Gaussians, matrix factorization Week 9: non-negative matrix factorization, latent factor models, PCA and variations Week 10: Markov models, hidden Markov models Week 11: continuous state-space models, association analysis Week 12: model selection, next stepsUnfortunately, learners residing in one or more of the following countries or regions will not be able to register for this course: Iran, Cuba and the Crimea region of Ukraine. 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