

MITx 6.86x

Machine Learning with Python-From Linear Models to Deep Learning

Course <u>Progress</u> **Discussion Resources** Dates

Course / Unit 0. Brief Prerequisite Reviews, Homework 0, and Project 0 / Homework 1

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6. Probabilty Review: Probability Density Functions

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Homework0 due Feb 8, 2023 08:59 -03 Completed

Concept Check

3/4 points (graded)

Let X be a **continuous** random variable with probability **density** function (pdf) $f_{X}\left(x
ight)$

1. Does the value of $f_X(x)$ always lie withint the interval [0,1]? (Recall [0,1] is the numbers between 0 and 1 including the end point 0 and 1.)







2. For $a < b, \; \int_a^b f_X\left(x\right) dx \in [0,1]$ and represents the probability that the valuand b. (Recall the notation $y \in [0,1]$ means $0 \le y \le 1$)



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3. Is the value of $f_{X}\left(x
ight)$ always non-negative?



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4. The value of integral $\displaystyle\int_{-\infty}^{\infty}f_{X}\left(x
ight)dx$ of $f_{X}\left(x
ight)$ from $-\infty$ to ∞ is a finite unknown

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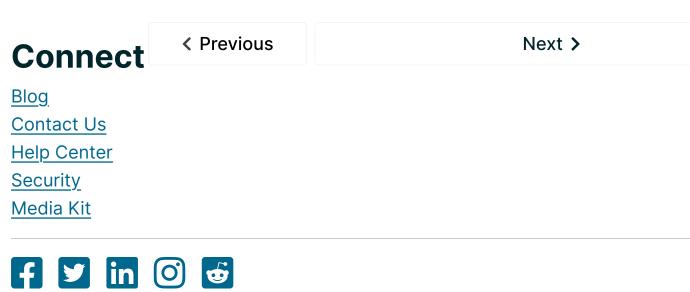
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News









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