Bookmarks

Module 1: The Basics of R and Introduction to the Course

Welcome to the Course

Introduction to R

Introductory Lecture
Finger Exercises due Oct 03, 2016 at 05:00 IST

Module 1: Homework
Homework due Sep 26, 2016 at 05:00 IST

Entrance Survey

Module 2: Fundamentals of Probability, Random Variables, Distributions, and Joint Distributions

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Question 1

(1/1 point)

True or false: For a particular probability function for a discrete random variable, each of the individual probabilities must be less or equal than one, but probabilities together must sum to one.

- a. True ✔
- b. False ✔

EXPLANATION

True. As discussed in class, the probability function fx(x) for a discrete random variable X describes the probabilities associated with each value of X. Two useful properties for the probability function are that each of the individual probabilities must be less than or equal to 1, and their sum must be equal to 1. There was a mistake in the previous phrasing of the question, so we will accept both answers as valid. Thanks to those that pointed this out!

You have used 1 of 1 submissions

Question 2

(1/1 point)

True or false: Probability density functions describe a continuous random variable in a similar way as probability functions describe a discrete random variable.

- a. True ✔
- b. False

EXPLANATION

True. As discussed in class, probability density functions are the continuous analog of a discrete variable's probability function. The probability density function depicts for all possible values of a continuous random variable the likelihood that the variable takes on that value.

You have used 1 of 1 submissions