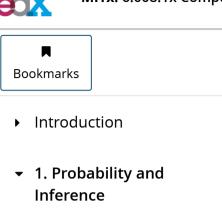


MITx: 6.008.1x Computational Probability and Inference



Introduction to Probability

Exercises due Sep 22, 2016 at 02:30 IST

Probability Spaces and Events

Exercises due Sep 22, 2016 at 02:30 IST

Random Variables

Exercises due Sep 22, 2016 at 02:30 IST

1. Probability and Inference > Probability Spaces and Events > Exercise: Modeling Uncertainty

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Exercise: Modeling Uncertainty

(6/6 points)

• We have a probabilistic model coded in Python as the following dictionary:

What is the sample space? (Express your answer as a Python set. For example, the set {spam, eggs} is expressed in Python as {'spam', 'eggs'}.)

• Does the following Python dictionary encode a valid probabilistic model?

{'hearts': 0, 'clubs': 0.4, 'diamonds': 0.7, 'spades': 0.2}

Yes

No 🗸

• Does the following Python dictionary encode a valid probabilistic model?

{'apple': 0.5, 'orange': 0.4, 'pear': 0.2, 'banana': -0.1}

Yes

No

• Recall that for each key in a Python dictionary, there is an associated value. A Python dictionary stores a valid probability distribution when the values are each at least

0 and at most 1

1

; moreover, when

we add up the values for all the keys, the sum is equal to 1

You have used 1 of 5 submissions

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