Pdf free Statistics 201 elements of finite probability (2023)

probability on finite sets the sample space is a finite set Ω it s elements are called outcomes exactly one outcome occurs in every experiment function p Ω 0 1 is called a probability mass function pmf if p a 0 for all a Ω and x a Ω p a 1 then p a is the probability that outcome a Ω occurs if a and b are sets then ba denotes the set of functions f a b functions with domain a and codomain b jaj denotes the cardinality size of the set a the number of elements of a for instance for n 2 n0 we have j n j n a set of size k is referred to as a k set 5 1 finite probability spaces a nite probability space is a nite set of possible outcomes to some experiment with probabilities numbers p f g assigned to each element 2 satisfying p f g 0 x p f g 1 2 for example to represent 3 tosses of a fair coin we could set fhhh hht ht h ht t t hh t ht t t h t t t g finite probability models the fundamental idea in probability theory is a probability model also called probability distribution probability models can be specified in several differ ent ways probability mass function pmf probability density function pdf distribution function df probability measure and definitions and properties of finite probability spaces were discussed in this video with six illustrative examples moreover infinite probability spaces together with its properties is this section introduces the idea of using venn diagrams to visualize set operations and answer questions about cardinality if you roll a die pick a card from deck of playing cards or randomly select a person and observe their hair color we are executing an experiment or procedure probability calculation steps specify the sample space specify a probability law identify an event of interest calculate 1 finite probability spaces and events de nition 1 1 a nite probability space is a nite set 6 together with a function pr r such that 1 8 2 pr 0 2 x 2 pr 1 the set is the sample space and the function pr is the probability distribution the elements 2 are called atomic events or elementary events a primer on finite probability spaces finite probability space a set Ω equipped with a function p Ω r with the property that p x Ω p x 1 we consider p x to be the probability that x Ω occurs event an event is a subset a Ω and the probability that a occurs is p a p x a p x 1 basics of probability the finite case we recall very briefly the basics of probability and random variables for a more detailed introduction please see the lecture notes by terry tao linked from the course homepage 1 1 finite probability spaces let be a finite set let n 0 1 be a function such that w n w 1 w2 å a probability model on a sample space s with a finite number n of outcomes is nothing other than a choice of real numbers p 1 p 2 dots p n all in the range from 0 to 1 and satisfying p 1 p 2 dots p n 1 learning objectives by the end of this section you will be able to identify a simple event a compound event and the sample space of an experiment compute probabilities using the basic probability formula identify complementary events and compute their probabilities compute the odds of an event general theory of finite probability spaces chapter pp 81 121 cite this chapter download book pdf elementary probability theory melvin hausner 536 accesses abstract if s is any probability space definition 1 6 we have defined an event a as any subset of s definition 1 12 do the following conditional probability problems at a college 20 of the students take finite math 30 take history and 5 take both finite math and history if a student is chosen at random find the following conditional probabilities he is taking finite math given that he is taking history free practice questions for finite mathematics probability includes full solutions and score reporting the probability that the second and fourth cards are queens the conditional probability that the second card is a heart given that the fifth card is a heart the probability that the third card is a queen and the fourth card is a heart finite math examples when a a and b b are independent events the probability of a a and b b occurring is p a b p b a p a p b p a b p b a p a p b which is called the multiplication rule for independent events a a and b b the commuting probability of a finite group is defined to be the probability that two randomly chosen group elements commute let p subset 0 1 be the set of commuting probabilities of all finite groups we prove that every point of p is nearly an egyptian fraction of bounded complexity which is a probability distribution over the values of x note that the covari ance matrix k which is made up of the positive semi definite kernel functions k ij completely defines the distribution off thus picking an appropriate ker nel is a critical for the gaussian process to be effective this is a rich research an absolutely continuous probability distribution is a probability distribution on the real numbers with uncountably many possible values such as a whole interval in the real line and where the probability of any event can be expressed as an integral

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probability on finite sets the sample space is a finite set Ω it s elements are called outcomes exactly one outcome occurs in every experiment function p Ω 0 1 is called a probability mass function pmf if p a 0 for all a Ω and x a Ω p a 1 then p a is the probability that outcome a Ω occurs

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if a and b are sets then ba denotes the set of functions f a b functions with domain a and codomain b jaj denotes the cardinality size of the set a the number of elements of a for instance for n 2 n0 we have j n j n a set of size k is referred to as a k set

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5 1 finite probability spaces a nite probability space is a nite set of possible outcomes to some experiment with probabilities numbers p f g assigned to each element 2 satisfying p f g 0 x p f g 1 2 for example to represent 3 tosses of a fair coin we could set fhhh hht ht h ht t t hh t ht t t h t t t g

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finite probability models the fundamental idea in probability theory is a probability model also called probability distribution probability models can be specified in several differ ent ways probability mass function pmf probability density function pdf distribution function df probability measure and

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definitions and properties of finite probability spaces were discussed in this video with six illustrative examples moreover infinite probability spaces together with its properties is

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this section introduces the idea of using venn diagrams to visualize set operations and answer questions about cardinality if you roll a die pick a card from deck of playing cards or randomly select a person and observe their hair color we are executing an experiment or procedure

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probability calculation steps specify the sample space specify a probability law identify an event of interest calculate

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1 finite probability spaces and events de nition 1 1 a nite probability space is a nite set 6 together with a function pr r such that 1 8 2 pr 0 2 x 2 pr 1 the set is the sample space and the function pr is the probability distribution the elements 2 are called atomic events or elementary events

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a primer on finite probability spaces finite probability space a set Ω equipped with a function p Ω r with the property that p x Ω p x 1 we consider p x to be the probability that x Ω occurs event an event is a subset a Ω and the probability that a occurs is p a p x a p x

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1 basics of probability the finite case we recall very briefly the basics of probability and random variables for a more detailed introduction please see the lecture notes by terry tao linked from the course homepage 1 1 finite probability spaces let be a finite set let n 0 1 be a function such that w n w 1 w2 å

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a probability model on a sample space s with a finite number n of outcomes is nothing other than a choice of real numbers p 1 p 2 dots p n all in the range from 0 to 1 and satisfying p 1 p 2 dots p n 1

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learning objectives by the end of this section you will be able to identify a simple event a compound event and the sample space of an experiment compute probabilities using the basic probability formula identify complementary events and compute their probabilities compute the odds of an event

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the probability that the second and fourth cards are queens the conditional probability that the second card is a heart given that the fifth card is a heart the probability that the third card is a queen and the fourth card is a heart

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finite math examples when a a and b b are independent events the probability of a a and b b occurring is p a b p b a p a p b p a b p b a p a p b which is called the multiplication rule for independent events a a and b b

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the commuting probability of a finite group is defined to be the probability that two randomly chosen group elements commute let p subset 0 1 be the set of commuting probabilities of all finite groups we prove that every point of p is nearly an egyptian fraction of bounded complexity

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which is a probability distribution over the values of x note that the covari ance matrix k which is made up of the positive semi definite kernel functions k ij completely defines the distribution off thus picking an appropriate ker nel is a critical for the gaussian process to be effective this is a rich research

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an absolutely continuous probability distribution is a probability distribution on the real numbers with uncountably many possible values such as a whole interval in the real line and where the probability of any event can be expressed as an integral

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