

Random Variables

1. Introduction

After having studied probability we shall now discuss a very important concept which plays a key role in probability theory i.e. a random variable which itself is a function. After defining it clearly we shall then consider discrete and continuous random variables and functions associated with them.

Clear understanding of this rich concept of random variable is essential for the understanding of another equally important concept of random process. As random process is a collection of random variables, for better understanding of random variables we shall discuss the following examples.

2. Random Variable

In the previous chapter we learnt how to find the probability of an outcome and the laws of probability. We saw that the outcome of an experiment can be anything : it may be colour (black-white-red) of a ball, a gender (male-female) of a child, a suit (club-diamond-spade-heart) of a card or a number (1 - 2 - 3 - 4 - 5 - 6) of a die or a logical answer (yes - no) of a question or result of a toss (head - tail) of a coin. In most of the problems the outcome of an experiment is a number e.g. the salary of a person, the height of a student, the temperature at a place, the rainfall on a particular day. However, when the outcome is not a number we can express these outcomes in numbers by agreeing to denote,

- (a) head by 1 and tail by 0
- (b) boy by 1 and girl by 0
- (c) yes by 1 and no by 0
- (d) club by 1, diamond by 2, spade by 3 and heart by 4
- (e) red by 1, white by 2 and black by 3, etc.

In probability problems it is found convenient to think of a variable and consider the values of the variable which describe the outcomes of the experiment. In the toss of a coin the variable takes values 1 and 0; in the selection of a child it takes values 1 and 0, in the answers of the question it takes the values 1 and 0, in drawing a card it takes values 1, 2, 3, 4, in drawing a ball it takes values 1, 2, 3 etc. This variable may take discrete values or may take any value in a range continuously e.g. the arrival time of a bus at a stop, say, between 9 a.m. and 9.10 a.m. may be any number between the range. Such a variable is called a random variable. Actually random variable is a misnomer. It is a function which assigns a real number to the outcome of an experiment. A random variable is denoted by X . In the toss of a coin X assigns the value 1 to H and 0 to T , in the selection of a ball X assigns value 1 to red, 2 to white and 3 to black.

In these cases X takes discrete values and is called a discrete random variable. But in the case of arrival time of a bus X takes continuously any value between 9 am. and 9.10 am. and hence X is a continuous random variable. In this way, we consider X as a function from sample space S to the set of real numbers R . Thus we get the following definition.

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