

Summary of Questions

Introduction to Probability

Dr. Naveen M. B Akshay A.J Chandan M
Harini G.S Sawan S.M

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Week 1

Question 1

Explain PMF/PDF

Answer 1

Say there is a uniform RV in $[a, b]$

The PDF is plotted by considering very small intervals within the range. The probability of any number within these tiny ranges can be plotted.

This way we create the PDF.

Probability defined for discrete sample space is called PMF

Example: Let X be the random variable which takes values from 1 to 10. The probability that randomly selected number is 3 will be

$$P(X = 3) = 1/10.$$

Probability defined for continuous sample space is PDF

Example: Let Y be the random variable which takes values from a number between 1 to 10

$P(Y=3)=0$ But $P(3.1 < Y < 3.2)=0.1/10$ # Week 2 ## Question 1