## Introduction to Data Science a Learn everything about analytics



## In the previous video

- What is probability?
- Why do we need to understand the concept of probability?



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## How to convert events to numbers?

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| out 100 have Typhorid

Winner gett 7 8 ev

Y= Sum of numbers on a pair dica Y= [2,3,4,5,6,7,8,9,10,11,12] 1,2,3,4,5,6
6 out coones

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## Random Variables

- Each value of the random variable may or may not be equally likely. If I start fighting a wrestling champion our chances of winning are not equally likely.
- Sometimes the random variables only take fixed or discrete values like here, the sum of values on two dice can either be 2 or 3 and not 2.5

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4= [ 2,3,4,5,6,7,8,9,10,11,12]

2= {1,13=1 ~~ 3 = { (1,2) \ 2,1)} = 2 ways 4- {(2,2),(3,1),(113)}= 3 ways 5- { L, w, (4, 1) (7, 3) + (3, th) | g about analytics 6 = { (3,3), (1,5), (5,1), (2,4), (4,2) }= 5ways

0={(4,6), (6,4),(5,3)} 11= { (516), (6,5)}=207 10 122 E (6,6)} = 100y 7= { (1,6), (6,1), (2,5) (5,2), (3,4), (4,3) }= 6 ways 8= { (2,6), (62), (3,5), (513), (4,4) }= 5 wart 9= {(3,6), (6,3), (5,4), (4,5)} = 4004