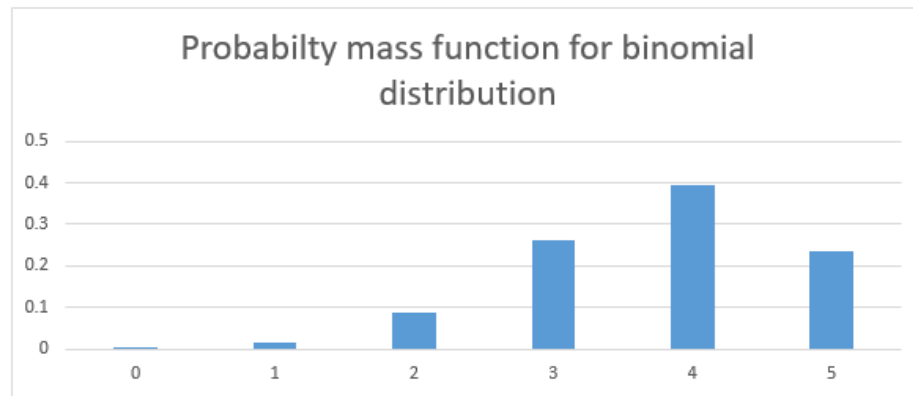


Introduction to Data Science

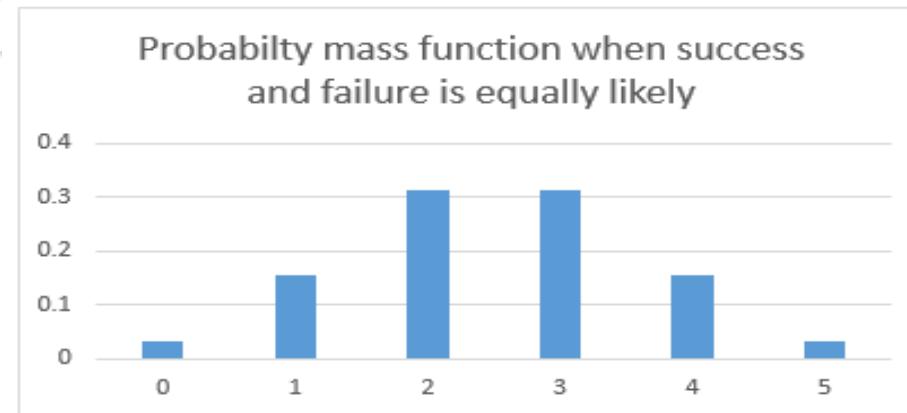
Learn everything about analytics

In the previous video

- Probability mass function
- Bernoulli Trials
- Probability Mass function of Bernoulli trials

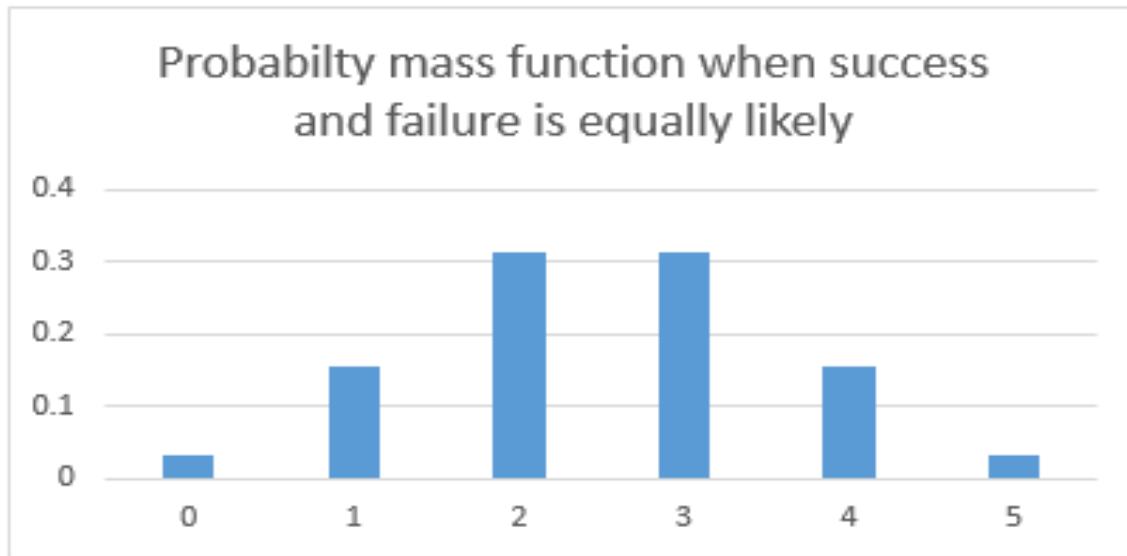


$P=0.75, Q=0.25$



$P=0.5, Q=0.5$

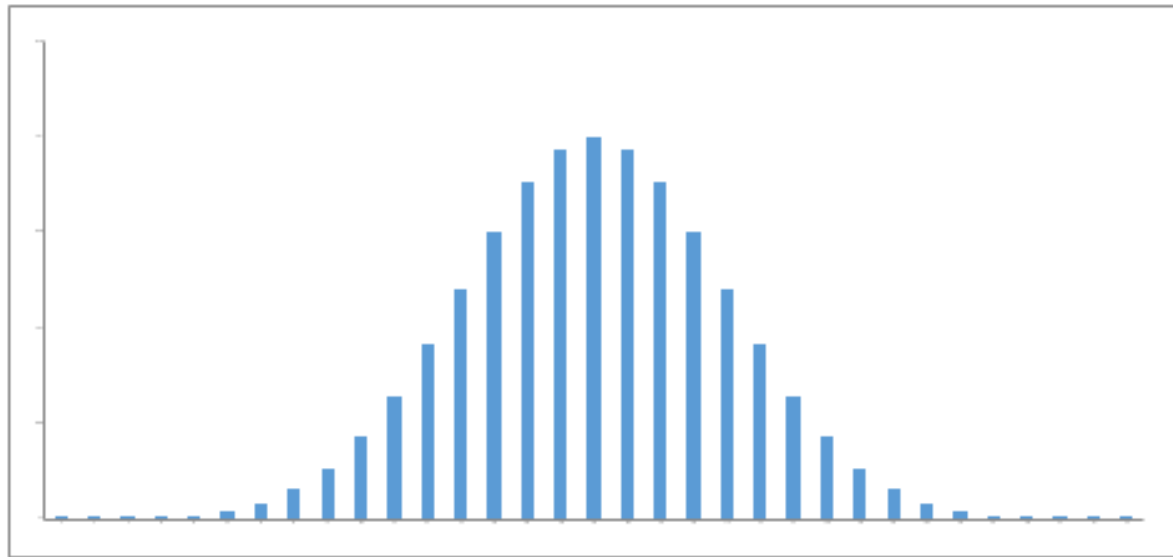
$P=0.5$, $Q=0.5$



$P=0.5$, $Q=0.5$

Analytics Vidhya
Learning about analytics

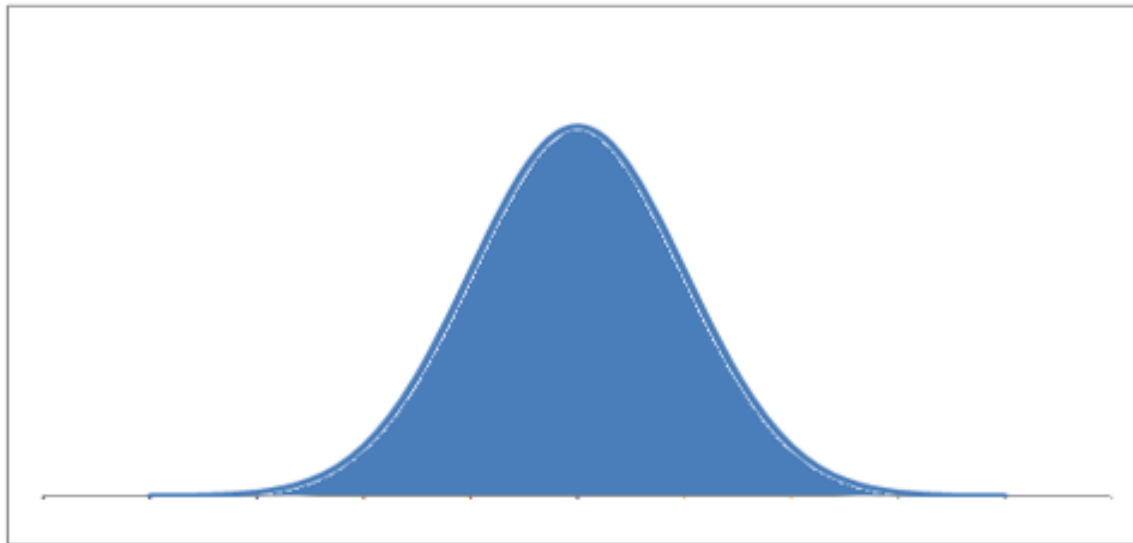
Large number of Bernoulli trials, $p=0.5$, $q=0.5$



Large number of trials

Analytics Vidhya
Learning about analytics

Infinite number of Bernoulli trials, $p=0.5$, $q=0.5$



Infinite number of trails

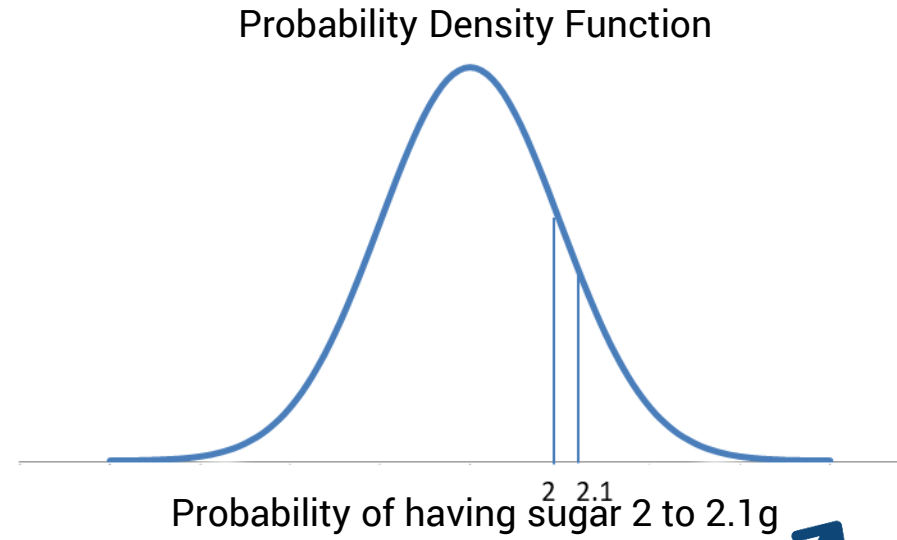
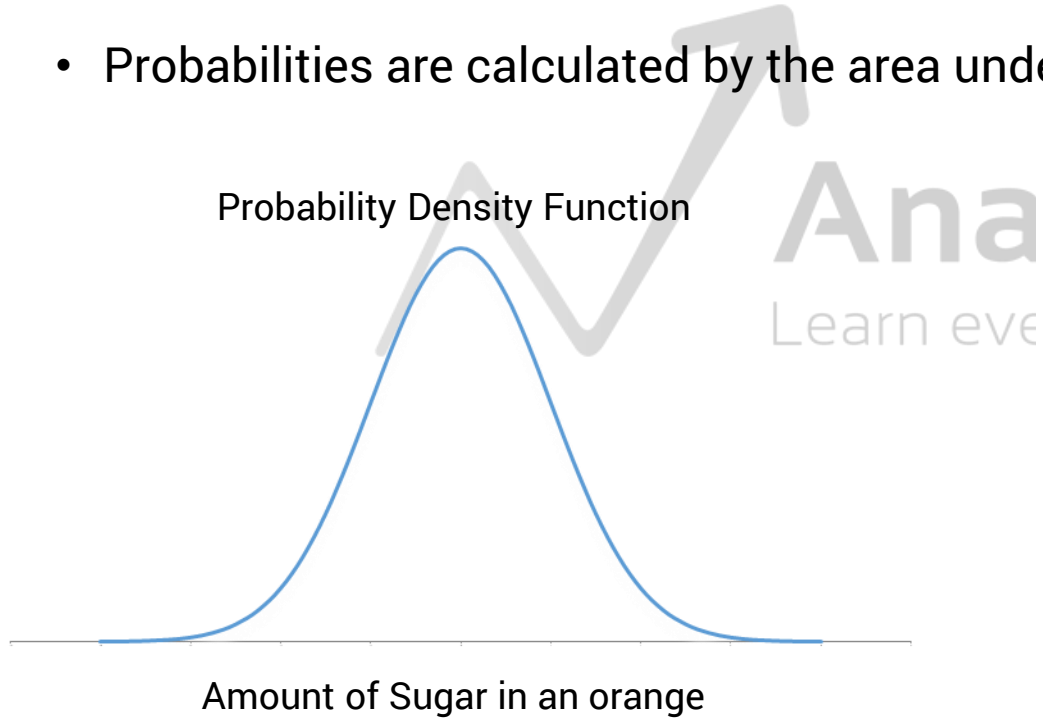
← Probability Density Function

Continuous Random Variables

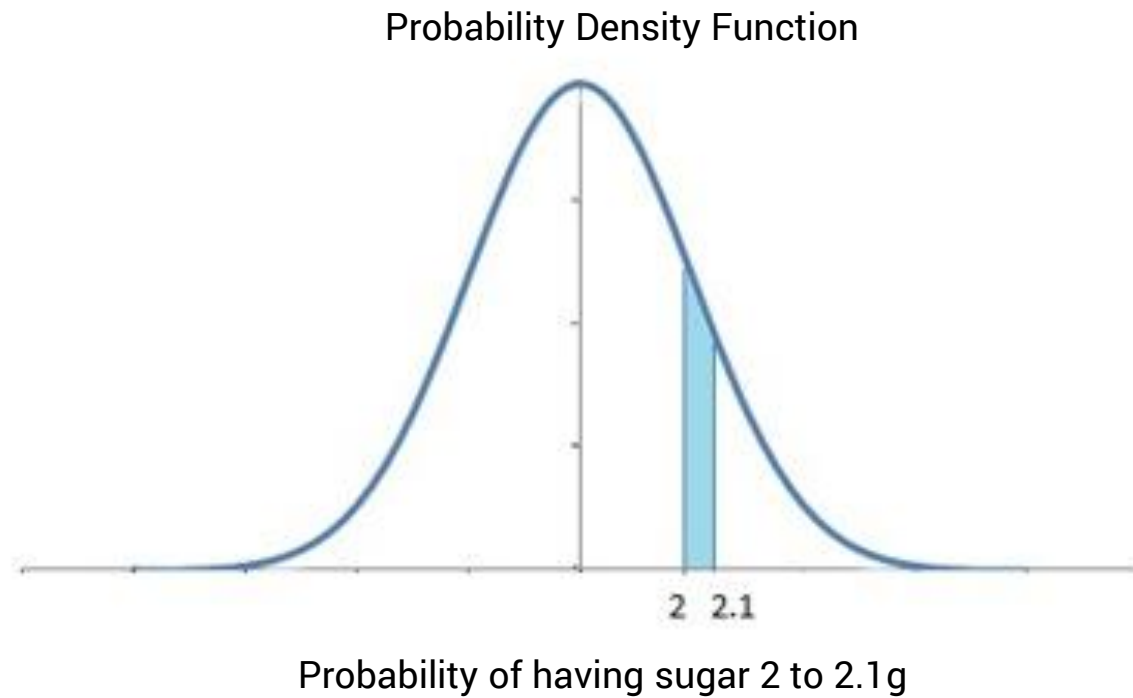
- Continuous Random variables which can take any value in a given range
- For Example:
 - Amount of Sugar in an orange
 - Life of a fly
- Probability Distribution is known as **Probability density function**

Calculating Probabilities for Continuous Random Variables

- Calculate probabilities for a range rather than a single value
- Probabilities are calculated by the area under the graph of the probability Density function



Calculating Probabilities for Continuous Random Variables



dhya
tics

In this video

- Probability mass function for large number of Bernoulli Trials
- Probability function for infinite number of Bernoulli Trials
- Continuous Random Variables
- Probability Density Function of Continuous random variables