

DAILY ASSESSMENT FORMAT

Date:	17-06-2020	Name:	Poorvi j gowda
Course:	mysql	USN:	4AL17EC071
Topic:	completed		6 th b
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FORENOON SESSION DETAILS

Date:17june202

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Course: statistical
learning

Name:poorvi j

USN:4AL17EC071

Content

Learning Videos

Learning Material

Quiz

Probability and Statistics- Quiz

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Probability and Statistics- Quiz

Type : Graded Quiz

Attempts : 1/2

Questions : 10

Time : 30m

Scoring Policy : Highest Score

Your Score : 6.00/10

Instructions

RETAKE

Attempt History

Date	Attempt	Marks
Jun 17, 12:03 PM	1	6

Previous

Next

Topic:rules for probability theory.
Bayes theorem.
Normal distribution.

Sem&Sec:6th b

AFTERNOON SESSION DETAILS

~~Area~~ 17/06/2010

→ Rules of Probability Calculation

① Addition Rule - Mutually Exclusive Events

$$P(A \cup B) = P(A) + P(B)$$

② Multiplication Rule

Events are not independent

$$P(A \cap B) = P(A) \cdot P(B|A)$$

~~17/06/2010~~

? 35 men and 33 women, 36 are teetotalers.
None of the women are non-smokers & 18
of the men smoke but do not drink. 13 of
the men and seven of women drink but
do not smoke.

How many, both drink & smoke? What is
associated probability?

→

$$M + \bar{M} = 70$$

$$D + \bar{D} = 70$$

$$D = 70 - 36 = \underline{\underline{34}}$$

$$DS = MDS + \bar{M}DS$$

$$13 + 17 = \underline{\underline{30}}$$

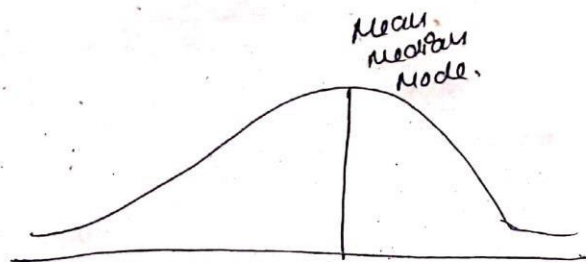
$$D = DS + D\bar{S} = 34$$

$$PS = 34 - DS = 34 - \underline{\underline{30}} = \underline{\underline{14}}$$

Bayes's theorem

$$P(B_i/A) = \frac{P(A/B_i) \cdot P(B_i)}{P(A/B_1)P(B_1) + P(A/B_2)P(B_2) + \dots + P(A/B_k)P(B_k)}$$

Normal Distribution



Properties

- ~~this is the~~ statistical use a exp "Bell shaped Distribution".
- * Mean, Median, Mode ~~are~~ all are equal.
- * NED has 2 parameters.

In the usual notation the probability density function of Normal Distribution is given

$$f(x) = \frac{1}{\sigma \sqrt{2\pi}} e^{-\left[\frac{(x-\mu)^2}{2\sigma^2}\right]}$$



Certificate of completion

Presented to

Poorvi hj

For successfully completing a free online course
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