

Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

| | and the second section will a second section of the second | AY: 2024-25 | 5 |
|--------------|--|--------------|-----|
| Class: | TE | Semester: | V |
| Course Code: | | Course Name: | DwM |

| Name of Student: | Sainath | What |
|----------------------|--|--|
| Roll No. : | 20 | |
| Assignment No.: | 3 | |
| Title of Assignment: | American de la companya de la compan | The second section and the second sec |
| Date of Submission: | n mada a Americana Tana, dia mbilana mpadambahan dia a | |
| Date of Correction: | arranda, iyo adii adda gi bariibadii o oo bi ba aa aadaaday aa a | |

Evaluation

| Performance Indicator | Max. Marks | Marks Obtained |
|------------------------|------------|----------------|
| Completeness | 5 | |
| Demonstrated Knowledge | 3 | |
| Legibility | 2 | |
| Total | 10 | • |

| Performance Indicator | Exceed Expectations (EE) | Meet Expectations (ME) | Below Expectations (BE) |
|--------------------------------------|--------------------------|------------------------|-------------------------|
| Completeness | 5 | 3-4 | 1-2 |
| Demonstrated Knowledge Legibility | 3 | 2 | 1 |
| Legibility | 2 | 1 | 0 |

Checked by

Name of Faculty :
Signature :
Date :

Suppose that the minimum & maximum value for the attribute insome one \$12000 h \$ 28,000 respectfully Normalise insome value \$73,600 to M. mge [00,10] Q, using min- most normalization muchod. Oins - Let A be attribute income mina = \$ 12.000 max = \$ 98,000 V= \$ 73600 new-min a 0.0 run- max g = 10 V' = V - min a (max a - mina). (new max a - new min a) + new mina V' - 73600 - 12000 (0000 - (2000) - (1.0 - 0.0) +0.0 V' - 61600 86000(1)+0 V' = 61600 86000 V' = 0.7162 James \$73,600 is transfund be 0.2162 FOR EDUCATIONAL USE Sundaram

fruit & yellow, sunt, long I using name (2) Bagin alsorithm. Total 1009 Fruit Gellow Smut 650 0 450 350 Orange 400 350 300 400 Barana 150 50 100 50 Others 1200 400 850 800 Total x = [Julion, sweet, Long] = fruit To thick the probability of orange 1) P (yellow lorange) = P (orange/yellow). P (yellow) P(Grange) = 350/800 × 800/1700 650 /1200 - 350/800 x 800/1200 x 1700/650 350 650 = 0.538

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| 2) | P (Sunt lorage) = P (orange (Sunt) . P (Sunt) |
|-----|--|
| | P(orage) |
| | |
| | = 450/rs0 × 850/1700 650/1700 |
| | 650 /1700 |
| | |
| | = 450 × 1200 = 450 |
|] | 1700 650 |
| | - 0.692 |
| (3) | P() P(loos) |
| 3 | P(Long /orange) = P(Orange / Long) · P(Long) P(Orange) |
| | |
| | = 0/400 × 400/1700 |
| | 650 (1200 |
| | = 0 |
| | P(x=0range)= 0.538 x 0.692 x 0 = 0 |
| (| |
| | Similarly using Naine Bayne to check probability |
| | of Barens: |
| | 1) P(Willow / Brown) = 300 × 850 |
| | 1) Plyellow / Bonnan) = 300 × 850 850 1700 |
| | 400 |
| | 1700 |
| | |
| | = 300 × 250 × 1200 = 300 = 0.70 |
| | 350 1200 400 400 |
| | |
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(3) P(long / Banam) = 350 350 × 400 400/1200 350/400 = 0.875 P(x= Bangna) = 1x 0.75 x 0.875 = 0.656 in) Similarly using Naine Bayer to check probablity of other fruits 1) P(yellow / others) = 50/800 × 800/1200 50/800 × 800/1200 × 1200/120 S0/150 0.333 DP(Sent /odhr) = 100/850 × 850/1200 × 850 × 1200 100 850 1200 15, = 0.666 Sundaram

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G

P(long lothurs) -- SO x 400 1700 1216 - SU x 400 x 1700 = 50 400 1200 150 - 0.333 P(x= other) = 0.33 × 0.66 × 0.83 = 0.071 By comparing all 3 probabilise i.e P(X = Banana) = 0.656 p(x= othere) = 0.071 we genderde that P (x = orange) = 0 P(x = Banana) = 0.656 P(x= other) = 0.071 che conclude that P(Banana) > P(othere) > P (orange) .. The Fruit which is gellow, Sweet & long is Banana FOR EDUCATIONAL USE

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