DELYA (Pamo)

Data- Mining

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I Calculate min-max normalization of the following

new Max = 1, new Min = 0

marks: 8, 10, 15, 20

A V' = V- mina (new-max - new-mina) +
max - mina (new-max - new-mina) +

miny = 8 max = 20

newMax=1 newMin = 0

 $\frac{8}{20-8} V' = \frac{8-8}{20-8} (1-0) + 0' = 9$

 $\frac{10}{20-8} \quad V' = \frac{10-8}{20-8} \left(1-0\right) + 0 = 0.1667y$

V' = 15-8 (1-0)+0 = 0.5833

 $\frac{20}{20-8}$ $V' = \frac{20-8}{20-8} (1-0) + 0 = 1$

Using 2-score $V' = V_{i}^{\circ} - \overline{A}$

A → mean of observation = 8 + 10 + 15 + 20 = 13.25

S.D, $\sigma = \sqrt{\sigma^2}$ $\sigma^2 = \left(\frac{1}{N} + \frac{2}{(z-1)^2} + \frac{2}{N^2}\right)$ COLIGH

DELTA Pg No.

$$=\frac{1}{4}\left(8^{2}+10^{2}+15^{2}+26\right)-\left(13.25\right)^{2} \qquad N=4$$

$$=\frac{789}{4}-\left(13.25\right)^{2}=21.6875$$

$$=\sqrt{21.6875}=4.657$$

$$\frac{8}{4.657} = -1.127$$

$$\frac{15}{4.657} = \frac{15 - 13.25}{4.657} = 0.376$$

$$\frac{20 \rightarrow 20 - 13.25}{4.657} = 1.45$$