Md. Saiful Inlam 18-36363-1

Il Road	Fever	Dyspnea	Sneezing	Headache	Diagnosis
Sorre throat		1 1 1 1 1 1 1	Yen	Yen	. 0
Yen	Yes	Yen	167		Covid
No	No	No	Yen	Yes	Allergy
	Yen	No	Yen	No	cold
Yes	No	Yen	No	No	covid
Yes			Yen	No	cold
No	Ten	No		No	011000
No	No	100	Yen		Allerigy
NO	No	Yen	No.	NO	covid
Yen	No	1, No	Yen	Yen	Allergy
NO.	Men	No	Yen	Yen	cold
Yen	Yen	No	Ten	Ten	cold

Step-1

lets assume,
$$p = covid$$
; $n = Allergy$; $4 = cold$

$$= 3$$

$$= 3$$

$$= \frac{3}{10} \left(\log_2 0.3 \right) - \frac{3}{10} \left(\log_2 0.3 \right) - \frac{1}{10} \left(\log_2 0.4 \right)$$

$$= -0.3 \left(\log_2 0.3 \right) - 0.3 \left(\log_2 0.3 \right) - 0.4 \left(\log_2 0.4 \right)$$

$$= -0.3 \left(-1.74 \right) - 0.3 \left(-1.74 \right) - 0.4 \left(-1.32 \right)$$

$$= 0.522 + 0.522 + 0.528$$

$$= 1.572$$

For each attribute the following

$$T (Piniqi) No = -\frac{1}{5} (\log_2 1/5) + \frac{2}{5} (\log_2 2/5) B - \frac{2}{5} (\log_2 2/5)$$

$$= 1.522$$

Even throat =
$$\frac{Pimi+Vi}{P+n+Vi} \times I$$
 (Piniv)

= $(\frac{5}{10} \times 1.522) + (\frac{5}{10} \times 1.522)$

= 1.522

Grain = $\frac{1}{5} \times 1.522 = 0.049$

= $1.571-1.522 = 0.049$

Fever Piniv 1 (Piniv)

Yes 1 4 0 0.722

No 2 0.971

No 2 0.971

I (Piniv) $\frac{1}{10} = -\frac{1}{5}(\frac{100}{2}\frac{1}{5}) - \frac{1}{5}(\frac{100}{2}\frac{1}{5}) - \frac{$