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Actions

) Rog (5)

Jages 2 No
Guni (s) = 1-[9]2 + (5)2 = 04591
outlook survey 2 3 5 Temp Hot 2 2 Paring 2 3 5 [Cod 3 1 4
breni (s, outlook) = 5 gui (2,3) + 4 gui (4,0) + 5 gui (2,3)
$= \left(\frac{5}{14} \left[1 - \left(\frac{2}{5}\right)^2 - \left(\frac{3}{5}\right)^2\right] + \left(\frac{4}{14} - 0\right) + \left(\frac{5}{14} \left(\frac{2}{5}\right)^2 - \left(\frac{3}{3}\right)^2\right]$ $= 0.342$
(raini gain (s, outlook) = 0.459-0.342 = [0.117]
Gini (8, temp) = 4 gini (2,2) + 6 givi (1)
$= \frac{4}{14} \left( 1 - \left( \frac{2}{4} \right)^2 - \left( \frac{2}{4} \right)^2 \right) + \frac{6}{14} \left( 1 - \left( \frac{4}{6} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( 1 - \left( \frac{3}{4} \right)^2 - \left( \frac{2}{6} \right)^2 \right) + \frac{4}{14} \left( \frac{3}{4} \right) + $
0,443
Guni gain (5, tent) = 0.459 - 0.443
= 0.016
Graniga(S, humality) =0.459-0.3694 = [0.0816]
(3,000) = 0.454 - 0.4286 = 0.0304
Select The feature having largest give gain -> outlook
Under sunny or shallow gui under sury Towns
Callook Temp Handy Wind
Sung Hot thigh Wed No Herry Hold 0 13 13
San MAI Had Well
Sur Cool Nova (1700)
Sung Mild Norm stray gre
you No Tot
Temp Hot 0 2 2 Wind West 1 2 3 100 1 0 1 Stong 1 1 2
Mild   1   0   1   2

General tends = 
$$\frac{2}{5}$$
 give  $(0,2) + \frac{2}{5}$  give  $(1,1) + \frac{1}{5}$  give  $(1,0)$ 

$$= \frac{2}{5} \left[1 - \frac{10}{2} - \frac{1}{6} \frac{1}{2}\right] + \frac{2}{5} \left[1 - \frac{1}{2}\right]^{2} \left[\frac{1}{2}\right]^{2} + \frac{1}{5} + 0$$

$$= \frac{2}{5} \left[1 - 0.15 - 0.25\right] = 0.2$$

Give (Sawy, word) =  $\frac{3}{5}$  give  $(0,3) + \frac{1}{5}$  give  $(2,0) = 0$ 

Fini (Sawy, word) =  $\frac{3}{5}$  give  $(1,1) + \frac{2}{5}$  give  $(2,0) = 0$ 

Hamidaty has lower give index

Under namy has be get from Phylo  $(0,2)^{2} + \frac{2}{5} \left[1 - \frac{1}{5}\right]^{2} \left[1 -$