Decision Telle

District thing that we need to find is which alleibuted is ziving more information

Different this we calculate information

gain of all the attributes and the maximum of them becomes the most node of decision thee.

Information Gain = Entropy (s) - E 18/1 Entrops) $v \in (v_1, v_2, v_3)$ [3]

Allabute: Outlook

Values Coutlook) = Sunny, Overcast, Rain

8= [9+ 5-] Enthopy(S)= -9 log_ 9 -5 log_ 5

= 0.94

Brunny [2+, 3-] Entropy (S)

 $=-2 log_{2} 2 - 2 log_{3} 3$ 5 0 5 5 5

= 0.971

Similarly find for Temp, humidity and wind

Grain (S, Outlook) = 0.2464

Grain (S, Temp) = 0.0289

Grain (S, Humidity) = 0.1516

Grain (S, Wind) = 0.0478

39 milour steps for Sumy as

Grån (Sounny, Temp) = 0.570 Grån (Sounny, Hundity) = 0.97 Grån (Sounny, Wind) = 0.0192

