3,4,5,5,6,6,7,7,8,8,8,10,10,11,12

7,5 ⟹ medyan

Düşük   Yüksek

Başarı durumu entropisi:

$$-\left(\frac{4}{16}\cdot\log_2\frac{4}{16} + \frac{12}{16}\cdot\log_2\frac{12}{16}\right) = 0{,}811$$

Kazanç hesaplama

$H(CS_y) = \left(\frac{1}{8}\cdot\log_2\frac{1}{8} + \frac{7}{8}\cdot\log_2\frac{7}{8}\right) = 0{,}543$

$H(CS_D) = -\left(\frac{3}{8}\cdot\log_2\frac{3}{8} + \frac{5}{8}\cdot\log_2\frac{5}{8}\right) = 0{,}954$

$0{,}748 \Rightarrow 0{,}063$

$H(DA_n) = -\left(\frac{1}{5}\log_2\frac{1}{5} + \frac{4}{5}\cdot\log_2\frac{4}{5}\right) = 0{,}757$

$H(DA_{12}) = -\left(\frac{5}{5}\log_2\frac{5}{5} + \frac{0}{5}\log_2\frac{0}{5}\right) = 0$

$H(DA_E) = -\left(\frac{6}{6}\log_2\frac{6}{6} + \frac{0}{6}\log_2\frac{0}{6}\right) = 0$

$0{,}236 \Rightarrow 0{,}575$

$H(DO_y) = -\left(\frac{1}{7}\log_2\frac{1}{7} + \frac{6}{7}\log_2\frac{6}{7}\right) = 0{,}591$

$H(DO_o) = -\left(\frac{4}{5}\log_2\frac{4}{5} + \frac{1}{5}\log_2\frac{1}{5}\right) = 0{,}757$

$0{,}745 \Rightarrow 0{,}066$

$H(DO_D) = -\left(\frac{2}{4}\log_2\frac{2}{4} + \frac{2}{4}\log_2\frac{2}{4}\right) = 1$

$H(NO_1) = -\left(\frac{3}{4}\log\frac{3}{4} + \frac{1}{4}\log\frac{1}{4}\right) = 0,811$

$H(NO_0) = -\left(\frac{5}{7}\log\frac{5}{7} + \frac{2}{7}\log\frac{2}{7}\right) = 0,985$ $\Big\}$ $0,633 \Rightarrow 0,178$

$H(NO_0) = -\left(\frac{5}{5}\log\frac{5}{5} + \frac{0}{5}\log\frac{0}{5}\right) = 0$

Ders Adı > Not Ortalaması > Devam Oranı > Calisma saati

Matematik entropi hesaplama $= -\left(\frac{4}{5}\log_2\frac{4}{5} + \frac{1}{5}\log_2\frac{1}{5}\right) = 0,757$

Kazanc hesaplama

$H(DO_1) = \left(\frac{1}{2}\log_2\frac{1}{2} + \frac{1}{2}\log_2\frac{1}{2}\right) = 1$

$H(DO_0) = -\left(\frac{1}{1}\log\frac{1}{1} + \frac{0}{1}\cdot\log\frac{0}{1}\right) = 0$ $\Big\}$ $0,4 \Rightarrow 0,357$

$H(DO_D) = -\left(\frac{2}{2}\log_2\frac{2}{2} + \frac{0}{2}\log_2\frac{0}{2}\right) = 0$

$H(NO_1) = -\left(\frac{1}{1}\log_2\frac{1}{1} + \frac{0}{1}\log\frac{0}{1}\right) = 0$

$H(NO_0) = -\left(\frac{3}{4}\log_2\frac{3}{4} + \frac{1}{4}\log_2\frac{1}{4}\right) = 0,811$ $\Big\}$ $0,648 \Rightarrow 0,109$

$H(ÇS_1) = -\left(\frac{1}{2}\log_2\frac{1}{2} + \frac{1}{2}\log_2\frac{1}{2}\right) = 1$

$H(ÇS_0) = -\left(\frac{3}{3}\log_2\frac{3}{3} + \frac{0}{3}\log_2\frac{0}{3}\right) = 0$ $\Big\}$ $0,4 = 0,357$

Calışma saati = Devam Orani > Not Ortalamasi

Calışma saati entropi $\rightarrow -\left(\frac{4}{5}\log_2\frac{4}{5} + \frac{1}{5}\log_2\frac{1}{5}\right) = 0,721$

Calisma saati yüksek:
  Kazanc hesaplama

$H(DO_1) = \left(\frac{1}{1}\log\frac{1}{1} + \frac{0}{1}\log\frac{0}{1}\right) = 0$
$H(DO_0) = -\left(\frac{1}{1}\log\frac{1}{1} + \frac{0}{1}\log\frac{0}{1}\right) = 0$ $\Big\}$ 0_2

$H(NO_0) = -\left(\frac{1}{2}\log_2\frac{1}{2} + \frac{1}{2}\log_2\frac{1}{2}\right) = 1$