Oui	0001
02.11	2019

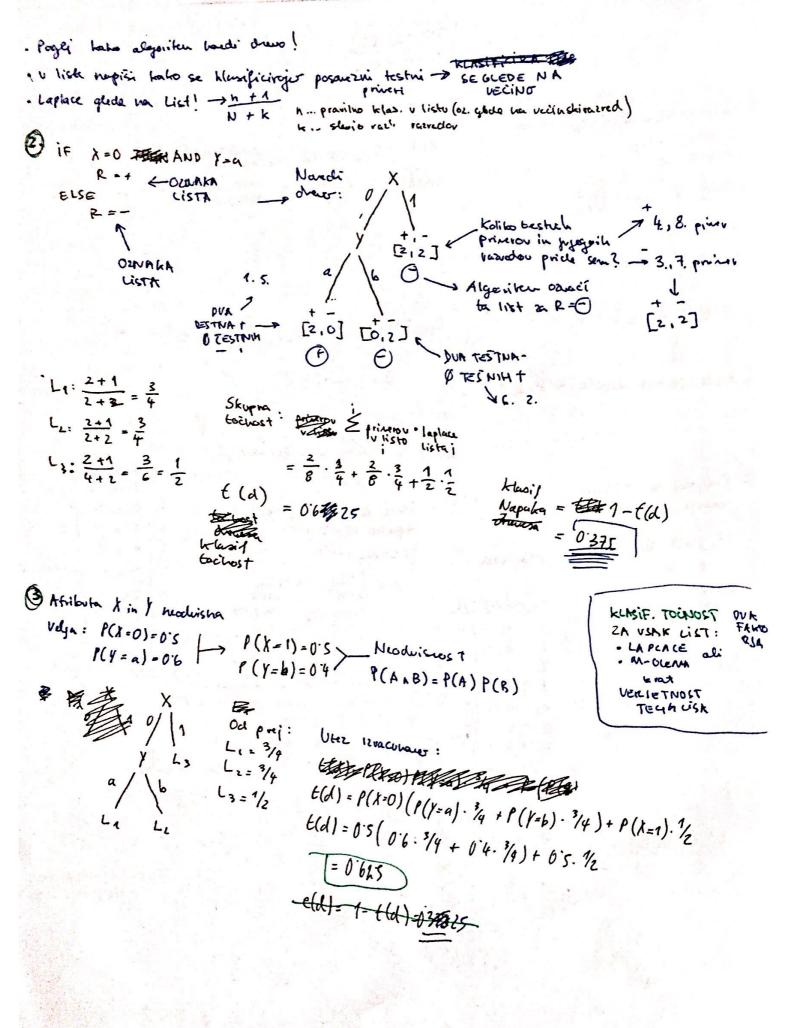
1 Ivano problem strojnega učenjen ATRIBUTI: X iny RAZLEO. R

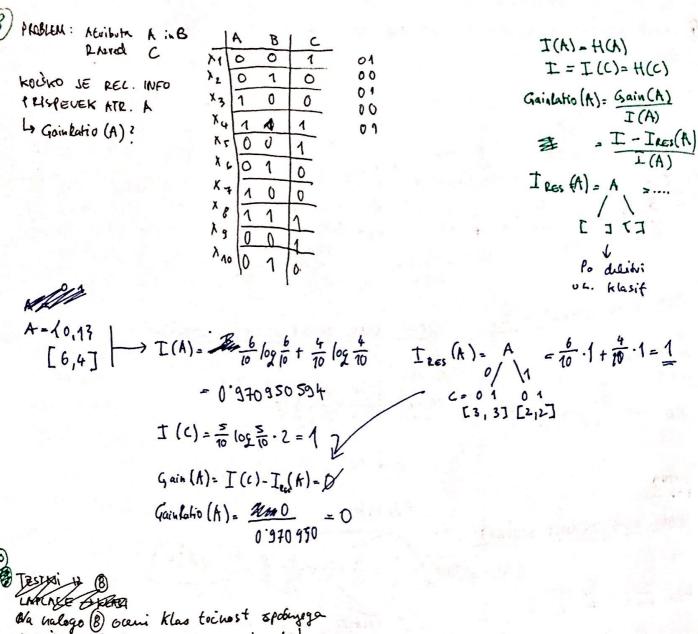
## Kaiker fi (Gain (Y))?

$$H(R) = -\frac{4}{8} \log \frac{4}{8} - \frac{4}{8} \log \frac{4}{8}$$

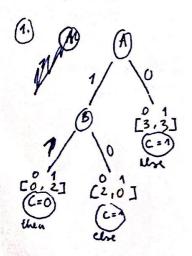
Nedelocienost racueda R je 1.

at I'm dobino O informacij.





Da nalogo (8) oceni klas toinest spobujega pravila 2 Larlacous ocero vergetrosti!



$$(4) = (4) = (\frac{3}{10} \cdot \frac{3}{4}) + (\frac{2}{10} \cdot \frac{3}{4}) + \frac{6}{10} \cdot \frac{4}{2} = 0.6$$

3 
$$f_{LAP} = \frac{h+1}{N+k}$$
  $k=2 \leftarrow \{0,1\} \Rightarrow 0$ 

$$L_1 = \frac{2+1}{2+2} = \frac{3}{4}$$

$$L_2 = \frac{3}{4}$$

$$L_3 = \frac{3+1}{6+2} = \frac{4}{8} = \frac{1}{2}$$

(5) Imaro problem SU s R= {1,2,33, Ala za V je iz 20 prinerov regnadilo Spodyje duvo:

L1=
$$\{1,1,1,1,1,2,2,2,3\}$$

L= $\{1,1,1,1,1,2,2,2,3\}$ 

L= $\{1,1,1,1,2,2,2,2,2\}$ 

L= $\{1,1,1,2,2,2,2,2\}$ 

L= $\{1,2,3,3\}$ 

L= $\{1,1,1,2,2,2,2,2\}$ 

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L= $\{1,2,3\}$ 

OCENI KLAS. TOCHOST V L1

$$k = 3$$
 $N = 5 + 3 + 1 = 9$ 
 $k = 3$ 
 $N = 67$ 
 $R_{LAP}(1) = \frac{5}{9 + 3} = \frac{6}{12} = \frac{1}{2}$ 
 $L_{APLACE} = \frac{4 + 1}{7 + 3} = \frac{5}{10} = \frac{1}{2} = \frac{5}{10}$ 

OLENÍ KLAS. TOČNOS U LA PO LAPLACE

$$k=3$$
 $N=67$ 
 $LAPLACE = \frac{4+1}{2+3} = \frac{5}{10} = \frac{1}{2} = \frac{5}{5}$ 

(b) SPROM

POD (S)

OCENI KLAS. FOC NOST DRELESA

$$L_{1}: \frac{1}{2}$$

$$L_{2}: \frac{4+1}{7+3} = \frac{5}{10} = \frac{1}{2}$$

$$L_{3}: \frac{2+1}{4+2} = \frac{3}{10}$$

$$L_{4}: \frac{2+1}{4+3} = \frac{3}{10} = \frac{1}{2}$$

$$L_{5}: \frac{2+1}{4+3} = \frac{3}{10} = \frac{3}{10}$$

$$L_{6}: \frac{2+1}{4+3} = \frac{3}{10} = \frac{3}{10}$$

$$L_{7}: \frac{2+1}{4+3} = \frac{3}{10} = \frac{3}{10}$$

$$L_{3} = \begin{bmatrix} 0 & 2 & 2 \end{bmatrix} \quad N=4 \\ L_{3} = \begin{bmatrix} 0 & 2 & 2 \end{bmatrix} \quad N=4 \\ M=6 \\ L_{m} = 6 \\ M=6 \\ M=6$$

Testri primeri 12 (8) haloge
L+ Tochost spedijega pravila
PO Laplacetovi!
L+ Kbsis. tochost!

L(d), Laplace ?

IF B=1 THEN (1)

(2) vshavi UP v (3) LAP LACE

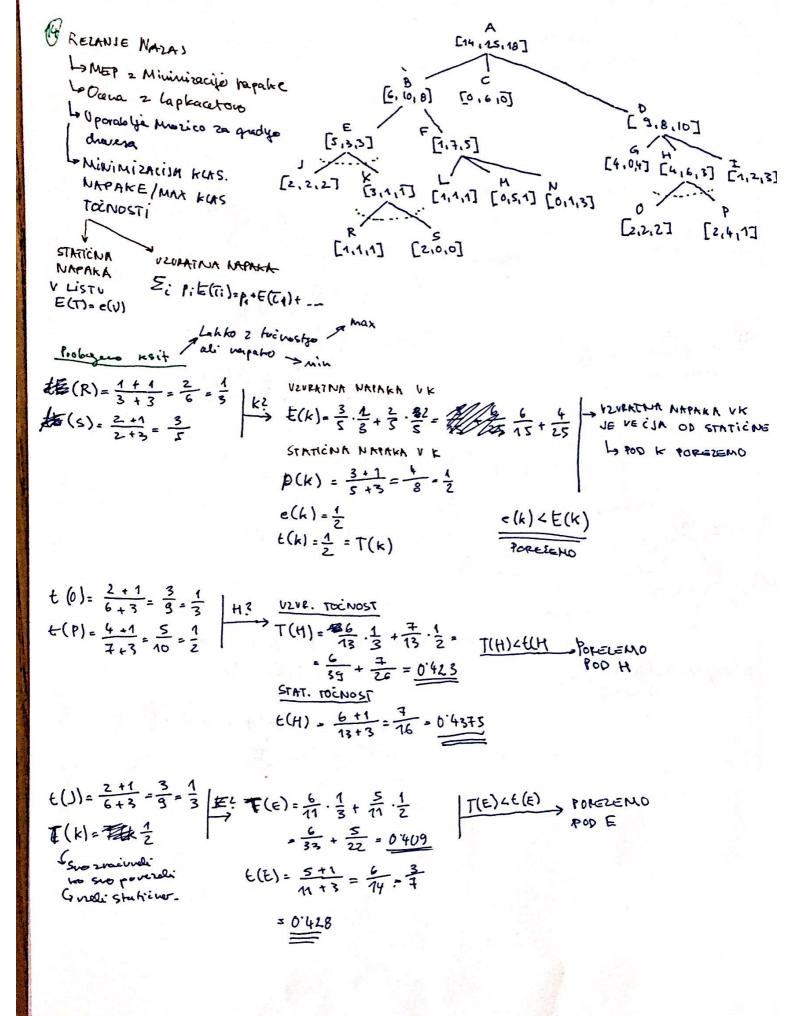
Pravilui list

$$L_1: \frac{3+1}{5+2} = \frac{4}{7}$$
 $L_2: \frac{3+1}{5+2} = \frac{4}{7}$ 

(3)  $E(d) = \frac{5}{10} \cdot \frac{4}{7} + \frac{5}{10} \cdot \frac{6}{7}$ 
 $= \frac{1}{2} \cdot \frac{4}{7} + \frac{1}{2} \cdot \frac{6}{7}$ 
 $= \frac{4}{7} = 0.7571$ 

(9)

$$P(B_{4}^{2}|A=1) = P(b=1|A=1) \qquad L_{3} = \frac{4}{2} + P(b=0|A=1) \qquad L_{3} = \frac{4}{2}$$



$$\begin{array}{lll}
t(L) = \frac{1+1}{3+3} = \frac{2}{6} = \frac{1}{3} & \longrightarrow \mathbf{F}(F) = \frac{3}{43} \cdot \frac{1}{3} + \frac{6}{43} \cdot \frac{2}{3} + \frac{4}{13} \cdot \frac{4}{7} & |T(F) > t(F)| & \text{POO} \\
t(M) = \frac{5+1}{6+3} = \frac{6}{9} = \frac{2}{3} & = \frac{3}{39} + \frac{12}{39} + \frac{16}{91} = 0.560
\end{array}$$

$$\begin{array}{lll}
t(F) = \frac{7}{4} + \frac{1}{3} = \frac{8}{4} = \frac{1}{2} = 0.500$$

$$\frac{E(G) = \frac{4+1}{8+3} = \frac{5}{11}}{E(H) = 0.4375} \longrightarrow T(D) = \frac{8}{27} \cdot \frac{5}{11} + \frac{13}{27} \cdot 0.4375 + \frac{6}{27} \cdot \frac{4}{9} = T(F) > E(F) \text{ por } D$$

$$= \frac{40}{297} + 0.2106 + 0.0988 = \frac{0.444}{27}$$

$$E(D) = \frac{10+1}{27+3} = 0.366$$

$$T(E) = 0.458$$

$$T(E) = 0.260$$

$$T(E) = 0.438 = 0.200$$

$$= 0.438 = 0.200$$

$$E(E) = \frac{10+1}{24+3} = \frac{11}{27} = 0.467$$

$$T(B) = 0.500$$

$$E(C) = \frac{6+1}{6+3} = \frac{1}{9}$$

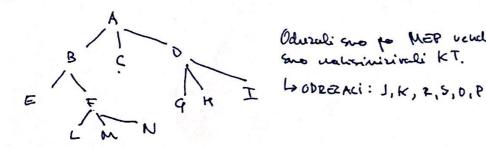
$$T(A) = \frac{24.6500 + 6.33 + 27.6444}{57} = \frac{1}{9}$$

$$T(D) = 0.444$$

$$= 0.503$$

$$E(A) = \frac{25+1}{57+3} = 0.433$$

## konino drevo



Odurali suo po MEP vender suo valirivirivali KT.

Ody, the devo sadej webuje 8 listou!

(6) Kar iz 14 haloge vzoneno rezultat. Kotikske te Verratna napaka v vozlišči B? Vporaloi Laplaceono oceno verteteneti!

Racureli snor 12 klas. tociastie zeto: E(B)=

(15) klasif. tochost pri rozzaje u neprei a drevo dodino de 1. Globice; uporebi

$$t(8) = 24.27 + 6.47 + 6.47 + 6.47 + 6.47 + 6.47 + 6.427 + 6.$$

(17) Kaho bono klus. houi priner u vezl. F Ce so apriorne respetosti:

$$P(R=3)=0.0$$
in  $m=10!$ 

$$F = [1,7,5]$$

$$t_{MF}(1) = \frac{1 + 0.1 \cdot 10}{13 + 10.0} = \frac{2}{2.3}$$

$$t_{MF}(2) = \frac{7 + 0.3 \cdot 10}{13 + 10} = \frac{5 \cdot 10}{2.3}$$

$$t_{MF}(3) = \frac{5 + 0.610}{13} = \frac{5 \cdot 10}{2.3}$$
MAX
$$v_{VO2L}. + se$$

$$klasificiral 0$$
Novi primeri

U 3. PAZEED