محدواد بسرداد - ۱۰۱۰ ما ۱۰۱۰ - تمرین 2 - هوش مصنوعی الم

سال اد ل

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=>
$$P(+w)=P(+w)+0)P(+0)+P(+w)-0)P(-0)=0.210.5+0.210.5$$

=0.55

P(+0,-w,+f,-r,+a)=P(+0)P(-v|+0)P(+f|+0,-w)P(-r|+0,-w,+f)
*P(+a|+0,-w,+f,-r)

= 0.5x0.1x0.6x0.8x0.7=0.0168.

PAPCO

Subject

Date

$$TI = \begin{pmatrix} 0.15 \\ 0.25 \\ 0.25 \\ 0.25 \end{pmatrix}, B = a \begin{pmatrix} 0.8 & 0 & 0.2 \\ 0 & 0.0 & 0 \\ 0 & 0.1 & 0.9 & 0 \\ 0.2 & 0 & 0.7 & 0.7 \end{pmatrix}$$

PAPCO

$$S = a + k$$

$$S = a + k$$

$$S = a + 0.4 = 0.5$$

$$A = a + 0.4 = 0.2 = 0$$

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init
$$\begin{cases} a_1(S) = 0.25 \times 0.8 = 0.2 & a_1(h) = 0 \\ a_1(a) = 0 \end{cases}$$
, $a_1(r) = 0.25 \times 0.2 = 0.05$

$$\begin{cases} a_1(s) = \sum_{i=1}^{n} a_i(i) a_{is} b_s(B) = 0.2x0.4 + 0.05x0.2 = 0.072 \\ a_2(a) = a_1(b) = 0 \\ a_2(r) = \sum_{i=1}^{n} a_i(i) a_{ir} b_r(B) = (0.2x0.5 + 0.05x0.6)x0.2 = 0.026 \end{cases}$$

Date

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 $\gamma_{2}(\hat{z}) = \frac{\alpha_{2}(\hat{z})\beta_{2}(\hat{z})}{\sum_{j} \alpha_{2}(\hat{z})\beta_{2}(\hat{j})}$; $\beta_{3}(\hat{z}) f_{3} + \hat{z} \ln [\alpha, b, S, r] = 1$

P3(1)= 0+0+0.1x0.1x1+0 =0.02

 $\beta_2(S) = 0.4 \times 0.2 \times 0.1 + 0.5 \times 0.7 \times 0.02 = 0.015$ $\beta_2(Y) = 0.2 \times 0.2 \times 0.1 + 6.6 \times 0.7 \times 0.02 = 0.0124$

1/2(S) = 0.072×0.015 0.072×0.015+0.026×0.0124 ~0.7

V((S)= 76 bs(13)=0.25x0.8=0,2

V((a) = V((b) =0 , V((1) = 0.25 x0.2= 0.05

V2(S)= max (0.0x0.0, 0.0540.1) 0.8 = 0.064

Va(1)= max (0.2x0.5, 0.05x0.6) 0.2 = 0.02

V3(5)= max (0.064x0.4,0.02x0,2)0.2 = 0.00512

V3(r) = max (0.064405,0.02 vos) 0.7 = 0.0224

V4(a)= max (0.00512 yo.1,0.0224x0] = 0.00512

V4 (h) = Max (0.0052x0, 0.0224x0,2) 40.1 = 0.000448

~ S, S, S, a