Machine learning | PLI.

Bayesian:

P(d) = \(\sum_{1} \text{P(d(hi))P(hi)} \)

= 0x(x0 \times 0) + 0 \(\sum_{2} \times 0.7 \times

= 0.0875

P(lime|d) = \sum_{i} P(lime|hi) P(hi|d)

= \sum_{i} P(lime|hi) $\frac{P(d|hi)P(hi)}{P(d)}$

= I Zi P(lime lhi)P(d lhi)P(hi)

 $=\frac{1}{0.0815}\times(0+0.0034375+0.025+0.02109375)+0)$

=07946428571

P(cherry Id)=1-P(lime ld)=0. 2053571429

→ 预测下- 颗岩柠檬口味

MAP: 极大后验

 $P(h_1|d) \propto P(d|h_1)P(h_1) = 0 \times |\times 0 \times 0| = 0$ $P(h_2|d) \propto P(d|h_2) P(h_2) = 0.21 \times 0.75 \times 0.25 \times 0.2 = 0.009375$ $P(h_3|d) \propto P(d|h_3) P(h_3) = 0.5 \times 0.5 \times 0.5 \times 0.4 = 0.05$ $P(h_4|d) \sim P(d|h_4) P(h_4) = 0.75 \times 0.25 \times 0.75 \times 0.2 = 0.028125$ $P(h_4|d) \sim P(d|h_4) P(h_5) = |\times 0 \times |\times 0.| = 0$

hmap=h3 P(ltmelhs)=OS ⇒天法判2. P(cherrylhs)=OS

ML: 格太似然

- P(d|h1)=0×1×0=0
P(d|h2)=0×1×071×0×1=0.046875
P(d|h3)=0·5×0·5×0·5=0.125
P(d|h4)=075×0·2√0·75=0.1406×5
P(d|h5)=1×0×1=0
hn2=h4
P(lime|h4)=0·75
P(cherry|h4)=0·75
P(cherry|h4)=0·75
