

Task 1:

Sensor in Portland: 5% $\Rightarrow P(PL)$

Sensor in Sahara: 95% $\Rightarrow P(S)$

80+ degrees Portland: 20% $\Rightarrow P(H \geq 80 | PL)$

80+ degrees Sahara: 90% $\Rightarrow P(H \geq 80 | S)$

Part a)

$$P(H < 80 | PL) = 0.8 \quad P(H < 80 | S) = P(H < 80 | PL^C) = 0.1 \quad P(PL^C) = P(S) = 0.95$$

$$\begin{aligned} P(PL | H < 80) &= \frac{P(PL) * P(H < 80 | PL)}{P(PL) * P(H < 80 | PL) + P(PL^C) * P(H < 80 | PL^C)} \\ &= \frac{0.05 * 0.8}{0.05 * 0.8 + 0.95 * 0.1} \\ &= \frac{0.05 * 0.8}{0.05 * 0.8 + 0.95 * 0.1} \\ &= \frac{0.04}{0.04 + 0.095} \\ &= \frac{0.04}{0.135} \\ &= 0.2963 \end{aligned}$$

$$P(PL | H < 80) = 29.63 \%$$

Part b)

$$P(PL | H < 80) = 29.63\% \quad P(S | H < 80) = 70.37\%$$

$$\begin{aligned} P(H < 80) &= .2963 * 0.8 + 0.1 * .7037 \\ &= .23704 + .07037 \\ &= .3074 \end{aligned}$$

$$P(H < 80) = 30.74\%$$

Part c)

$$P(H_1 < 80 \text{ AND } H_2 < 80 \text{ AND } H_3 < 80) = 0.3074 * 0.3074 * 0.3074 = .029$$

$$P(H_1 < 80 \text{ AND } H_2 < 80 \text{ AND } H_3 < 80) = 2.9 \%$$

Task 2:

$$S = \{A, B, C, D\}, P(A) = 0.3, P(B) = 0.6$$

When determining if P is a valid probability function, there is too little information to tell, even though we have $P(A)$ and $P(B)$. In to determine if it is valid, we need $P(C)$ and $P(D)$, because $P(A)$, $P(B)$, $P(C)$, and $P(D)$ must add up to 1, which we do not know. If they do, then yes, otherwise it is a no. Depending on $P(C)$ and $P(D)$, it is possibly a probability function, even though $P(A)$ and $P(B)$ add up to 0.9, leading to a small amount of probability for $P(C)$ and $P(D)$ combined.

Task 3:

$$P(x) = 0.3, 0 \leq x \leq 10$$

1. $P(x)$ is non-negative,

2. Is $\int_{-\infty}^{\infty} P(x) dx = 1$?

This is the question to answer, since how $P(x)$ operates is unknown. Until we know how $P(x)$ operates, then it is too soon to say $P(x)$ is a probability density function. It is possible though, since the first requirement seems to be met.

Task 4:

Training phase:

Class 1, attribute 1, mean = 0.52, std = 0.10
Class 1, attribute 2, mean = 0.54, std = 0.10
Class 1, attribute 3, mean = 0.52, std = 0.07
Class 1, attribute 4, mean = 0.41, std = 0.17
Class 1, attribute 5, mean = 0.50, std = 0.01
Class 1, attribute 6, mean = 0.00, std = 0.01
Class 1, attribute 7, mean = 0.50, std = 0.05
Class 1, attribute 8, mean = 0.24, std = 0.05
Class 2, attribute 1, mean = 0.45, std = 0.11
Class 2, attribute 2, mean = 0.45, std = 0.10
Class 2, attribute 3, mean = 0.53, std = 0.06
Class 2, attribute 4, mean = 0.23, std = 0.11
Class 2, attribute 5, mean = 0.50, std = 0.04
Class 2, attribute 6, mean = 0.00, std = 0.01
Class 2, attribute 7, mean = 0.49, std = 0.06
Class 2, attribute 8, mean = 0.33, std = 0.14
Class 3, attribute 1, mean = 0.43, std = 0.10
Class 3, attribute 2, mean = 0.48, std = 0.11
Class 3, attribute 3, mean = 0.36, std = 0.06
Class 3, attribute 4, mean = 0.22, std = 0.08
Class 3, attribute 5, mean = 0.51, std = 0.05
Class 3, attribute 6, mean = 0.00, std = 0.01
Class 3, attribute 7, mean = 0.51, std = 0.04
Class 3, attribute 8, mean = 0.27, std = 0.09
Class 4, attribute 1, mean = 0.79, std = 0.07
Class 4, attribute 2, mean = 0.76, std = 0.07
Class 4, attribute 3, mean = 0.38, std = 0.06
Class 4, attribute 4, mean = 0.32, std = 0.11
Class 4, attribute 5, mean = 0.50, std = 0.01
Class 4, attribute 6, mean = 0.00, std = 0.01
Class 4, attribute 7, mean = 0.51, std = 0.07
Class 4, attribute 8, mean = 0.27, std = 0.09
Class 5, attribute 1, mean = 0.74, std = 0.15
Class 5, attribute 2, mean = 0.62, std = 0.12
Class 5, attribute 3, mean = 0.42, std = 0.08
Class 5, attribute 4, mean = 0.30, std = 0.12

Class 5, attribute 5, mean = 0.50, std = 0.01
Class 5, attribute 6, mean = 0.00, std = 0.01
Class 5, attribute 7, mean = 0.51, std = 0.06
Class 5, attribute 8, mean = 0.24, std = 0.04
Class 6, attribute 1, mean = 0.54, std = 0.14
Class 6, attribute 2, mean = 0.50, std = 0.12
Class 6, attribute 3, mean = 0.51, std = 0.05
Class 6, attribute 4, mean = 0.24, std = 0.10
Class 6, attribute 5, mean = 0.50, std = 0.01
Class 6, attribute 6, mean = 0.49, std = 0.38
Class 6, attribute 7, mean = 0.51, std = 0.03
Class 6, attribute 8, mean = 0.24, std = 0.05
Class 7, attribute 1, mean = 0.48, std = 0.11
Class 7, attribute 2, mean = 0.47, std = 0.09
Class 7, attribute 3, mean = 0.54, std = 0.06
Class 7, attribute 4, mean = 0.22, std = 0.12
Class 7, attribute 5, mean = 0.50, std = 0.04
Class 7, attribute 6, mean = 0.00, std = 0.03
Class 7, attribute 7, mean = 0.50, std = 0.06
Class 7, attribute 8, mean = 0.26, std = 0.09
Class 8, attribute 1, mean = 0.74, std = 0.10
Class 8, attribute 2, mean = 0.73, std = 0.11
Class 8, attribute 3, mean = 0.49, std = 0.05
Class 8, attribute 4, mean = 0.29, std = 0.07
Class 8, attribute 5, mean = 0.50, std = 0.01
Class 8, attribute 6, mean = 0.00, std = 0.01
Class 8, attribute 7, mean = 0.46, std = 0.08
Class 8, attribute 8, mean = 0.23, std = 0.02
Class 9, attribute 1, mean = 0.55, std = 0.14
Class 9, attribute 2, mean = 0.56, std = 0.15
Class 9, attribute 3, mean = 0.51, std = 0.06
Class 9, attribute 4, mean = 0.20, std = 0.06
Class 9, attribute 5, mean = 0.50, std = 0.01
Class 9, attribute 6, mean = 0.00, std = 0.01
Class 9, attribute 7, mean = 0.53, std = 0.05
Class 9, attribute 8, mean = 0.24, std = 0.04
Class 10, attribute 1, mean = 0.78, std = 0.05
Class 10, attribute 2, mean = 0.73, std = 0.11

Class 10, attribute 3, mean = 0.48, std = 0.09

Class 10, attribute 4, mean = 0.33, std = 0.06

Class 10, attribute 5, mean = 1.00, std = 0.01

Class 10, attribute 6, mean = 0.00, std = 0.01

Class 10, attribute 7, mean = 0.55, std = 0.02

Class 10, attribute 8, mean = 0.23, std = 0.01

Testing phase:

ID= 1, predicted= 2, probability = 0.0000, true= 3, accuracy=0.10

ID= 2, predicted= 7, probability = 0.0000, true= 7, accuracy=0.10

ID= 3, predicted= 7, probability = 0.0000, true= 7, accuracy=0.10

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