$$X = \begin{bmatrix} \mathcal{L}_{1} \\ \dot{z}_{p} \end{bmatrix} \mathcal{L}_{11, \mathcal{I}_{12} \cdots \mathcal{L}_{1M}} \rightarrow \mathcal{N}(\mathcal{M}, \mathcal{Z}) = \frac{1}{(2\pi)^{\frac{p}{2}} Z^{\frac{1}{2}}} \exp \left[-\frac{1}{2} (\pi - \mathcal{M})^{T} \cdot \Sigma^{T} \cdot (\pi - \mathcal{M}) \right]$$

$$X = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} \quad Z = \begin{bmatrix} \sum_{11} \sum_{12} \sum_{13} \sum_{23} \sum_{23} \\ \sum_{13} \sum_{23} \sum_{23} \sum_{23} \end{bmatrix} \quad Q = \frac{\sum_{12}}{Q_1 Q_2} \quad \therefore \sum_{i,j} = Q_i Q_j \quad Q_i$$

o Min-max
$$7 = \frac{X - X \min}{X_{\max} - X \min}$$
 $0 \le Z \le 1$

$$E[Z] = E\left[\frac{X-M}{\sigma}\right] = \frac{1}{\sigma}E[X] - \frac{M}{\sigma} = \frac{1}{\sigma}(E[X] - E[X]) = 0$$

$$V[Z] = \frac{1}{R^2} V[X] = \frac{R^2}{R^2} = |$$

•
$$E[X] = X \cdot p(X)$$
 $E[X^2] = X^2 \cdot p(X)$ $E[(X^2 + 3x + 6)] = E[X^2] + 3E[X] + 6 = \sum_{x \in X} (X^2 + 3x + 6) \cdot p(X)$

•
$$\frac{74\nu^{9}}{17}$$
 $\frac{17}{2}$ $\frac{17}$ $\frac{17}{2}$ $\frac{17}{2}$ $\frac{17}{2}$ $\frac{17}{2}$ $\frac{17}{2}$ $\frac{17$

· P(A|B) = P(B|A)P(A) , P(B|A) = P(A) (4+1013 7321), P(A) B) = P(B|A) P(B) A: 是生 智慧 时间 A: 51,2,3,4,5) B: 3572 12713 Cont 5/730 PLA(B): 12至至 PCA): AFZL至至 PCB(A): 75台对(likeli hood) PCB): Scaling 127 PCAKIB) = PCBLAKSPLAK) = PLB(KK)PCAK)

PCBIASPLAG) p(A11B) = P(B1A1)p(A1) A-후호를이 MAX7~ 되는 7분부: Max a Posterior = MAP likelihood 75 Max7h 31 & 739: Max Likelihood Estination = MLE · Atat 2/30/ 30 2500 789: MAP 12 沙蒙寺:MLP和皇