1. Unanswered Questions

There are unanswered questions from the lecture, and there are likely more questions we haven't covered.

- Take a moment to think about these questions.
- · Write down the ones you find important, confusing, or interesting.
- · You do not need to answer them—just state them clearly.

1、在電量到 2-dm 的 Newton's method 中

但計算出來 H 會是 
$$H = \Gamma(\mathfrak{O}_{X}^{T}) \begin{bmatrix} \chi_{1}^{2} & \chi_{1}\chi_{2} & 1 \\ \chi_{1}\chi_{2} & \chi_{2} & \chi_{2} \\ \chi_{1} & \chi_{2} & 1 \end{bmatrix}$$

But H is not muertible, 即 HT 不存在

Q:要如何解釋此現象?

卷在 n-dm, n z 2 時, 也有 H is not muertible 的情况,要如何執行?

Z、在诸到 Gaussian discriminant analysis 身,假设了  $P(x|y=0)=N(M_0,T_0^2)=\frac{1}{\sqrt{2\pi}T_0}e^{\frac{-(x-M_0)^2}{T_0}}$   $P(x|y=1)=N(M_1,T_1^2)=\frac{1}{\sqrt{2\pi}T_1}e^{\frac{-(x-M_0)^2}{T_1}}$   $P(y)=\emptyset^g(1-\emptyset)^{1-g}, \quad D\in\emptyset\subseteq I$ 

但若資料的pdf不是Gaussian, 那如此學出來的模型會準嗎?有其它及奪方式嗎?