

① คนอายุ 35 ที่ทำงานธนาคารและมี credit ดีมาก. ซื้อคอมไหม

$$X = (\text{age } 31 \dots 40, \text{stu} = \text{no}, \text{cre} = \text{excellent})$$

$$\text{u1 } P(b=y \mid \text{age } 31 \dots 40, \text{stu} = \text{no}, \text{cre} = \text{excellent})$$

$$= P(\vec{X}_{\text{train}} \mid b=y) P(b=y)^{9/14} = \left(\frac{9}{14}\right) \left(\frac{4}{81}\right) = 0.0317$$

$$\left(\frac{4}{9}\right) \left(\frac{3}{9}\right) \left(\frac{3}{9}\right)$$

$$\frac{4}{81}$$

age	income	student	credit_rating	buys_computer
<=30	high	no	fair	no
<=30	high	no	excellent	no
31...40	high	no	fair	yes
>40	medium	no	fair	yes
>40	low	yes	fair	yes
>40	low	yes	excellent	no
31...40	low	yes	excellent	yes
<=30	medium	no	fair	no
<=30	low	yes	fair	yes
>40	medium	yes	fair	yes
<=30	medium	yes	excellent	yes
31...40	medium	no	excellent	yes
31...40	high	yes	fair	yes
>40	medium	no	excellent	no

② คนอายุ 50 และเพิ่งหัดขับรถ. ซื้อคอมไหม

$$X = (\text{age} > 40, \text{stu} = \text{yes})$$

$$\text{u1 } P(b=y \mid \text{age} > 40, \text{stu} = \text{no})$$

$$= P(\vec{X}_{\text{train}} \mid b=y) P(b=y)^{9/14} = \left(\frac{9}{14}\right) (0.2) = 0.1428$$

$$\left(\frac{3}{9}\right) \left(\frac{6}{9}\right) = 0.2$$