$$P(buy = Y \mid \hat{X}) = P(\hat{X} \mid buy = Y) \, P(buy = Y)$$

$$= P(age \leq 30 \mid yes) \, P(inc = med \mid yes) \, P(st = yes \mid yes) \, P(cr = fair \mid yes) \times \frac{9}{14}$$

$$= \frac{2}{9} \times \frac{4}{9} \times \frac{6}{9} \times \frac{6}{9} \times \frac{9}{14}$$

$$P(N \mid \hat{X}) = \frac{3}{5} \times \frac{2}{5} \times \frac{1}{5} \times \frac{2}{5} \times \frac{5}{14}$$

Quiz 12

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Q   Age = 20   St = yes

$$P(buy = Y \mid \hat{X}) = P(\hat{X} \mid buy = Y) \, P(buy = Y)$$

$$= P(age \leq 30) \, P(st = yes) \times \frac{9}{14}$$

$$= \frac{2}{9} \times \frac{6}{9} \times \frac{9}{14}$$

$$= 0.0952$$

$$P(N \mid \hat{X}) = \frac{3}{5} \times \frac{1}{5} \times \frac{5}{14}$$