

ISOM3360 Assignment: Nave Bayes

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1 Answer

Someone with poor GPA and lots of effort should be hired with decision threshold 0.5.

2 Procedures

$$\begin{aligned} & \Pr(Hirable = Yes | GPA = poor, Effort = lots) \\ = & \frac{\Pr(Hirable = Yes, GPA = poor, Effort = lots)}{\Pr(GPA = poor, Effort = lots)} \\ & = \frac{\frac{1}{8}}{\frac{1}{8}} \\ & = 1 \end{aligned}$$

As $1 > threshold = 0.5$, Someone with poor GPA and lots of effort should be hired.