

This is a statement about an unknowable parameter p. Uber doesn't like firing people. So Uber wants to give the most benefit of the doubt to its drivers. The hypothesis testing framework can be used here in a non-traditional way.

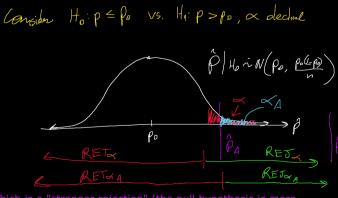
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Ho:
$$\rho \leq \rho_0 = 5\%$$
. $\Rightarrow H_A$: $\rho > \rho_0 = 5\%$. $\Rightarrow 2.5\%$

RET = $\begin{bmatrix} 0 & 0.05 & 1.008 \\ 0.05 & 1.008 \end{bmatrix} = \begin{bmatrix} 0 & 0.0638 \end{bmatrix}$

Uber makes this decision after n = 1000 rides. Thus, if p-hat > 0.0638, Uber fires the driver.

Why is $0.05 \neq 0.0638$? If the rule is "more than 5% of riders don't give $5 \bigstar$ then the driver is fired" then why can't we fire a driver if p-hat > 0.05?? MATHZ41 FINAL



The probability of observing your estimate or "more extreme" given the null hypothesis is true.