Experiment 6

Report

1. Differentiate between population mean and sample mean in the context of Hypothesis Testing. What are these values in this experiment?

2. Step 3 assumes that standard deviation of sample proportion is given by sqrt(p0*(1-p0)/size). Suggest a theoretical reason for this.

3. Most of the steps in this experiment are based on Z-Test? What other types of hypothesis testing are available and how do they differ from Z-Test? How would you interpret results in these other types of hypothesis testing?

4. Differentiate between Chi-square, Normal and t-distribution in terms of their density function graph and the machine learning applications in which they can be used?

5. Record your observations in step 7 and 8 in form of a table. Explain significance of p-value in light of your observations.