

Project on Hypothesis Testing



Learning Objectives

- Data Description
- Attribute information
- Steps to follow
- Conclusion

Data Description

Par Inc., is a major manufacturer of golf equipment. Management believes that Par's market share could be increased with the introduction of a cut-resistant, longer-lasting golf ball.

1. Formulate and present the rationale for a hypothesis test that par could use to compare the driving distances of the current and new golf balls.
2. Analyse the data to provide the hypothesis testing conclusion. What is the p-value for your test? What is your recommendation for Par Inc.?
3. Provide descriptive statistical summaries of the data for each model.

Attribute information



- Current: Current golf ball that is used.
- New: New ball with better cut resistance.

Steps to follow

- Import pandas, numpy, ttest_ind, levene, shapiro, iqr, matplotlib.pyplot
- Get the data
- Check for the Descriptive Statistics.
- Check if shapiro and levene tests work fine for the data.
- Calculate Pooled Standard Deviation
- Calculate Sample power



Conclusion

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Questions?

