DATA ANALYTICS AND MACHINE LEARNING WITH R

ASSIGNMENT 2

LUIS GUSTAVO NARDIN

INTERNET TECHNOLOGY

BRANDENBURG UNIVERSITY OF TECHNOLOGY

OVERVIEW

The goal of this assignment is to support the students to gain experience of using confirmatory data analysis in a practical setting. The general objective is to make an analysis of the Spruce Moth Trap dataset.

The Spruce Moth Trap dataset reports the number of moths trapped depending on the location and type of lure.

ACTIVITIES

- Identify the dependent and independent variables/factors
- Load the dataset
- Create summary statistics for location
- Create summary statistics for type of lure
- Create boxplots for each category
- Check for normality
- Check for equality of variance
- Perform hypothesis test to identify the most successful *type of lure* for trapping moths
- Perform ANOVA
- Evaluate the contribution of each variable/factor by testing different models using the AIC and BIC indicators