

Week #11 Assignment

Concepts Time Series

Due: 4/16/2023

Contents

Find a time series with at least 76 periods of values from the internet. Any type of time series (trend or non-trend, seasonal or non-seasonal, etc) will be fine for this assignment. The objective is to use the accuracy measures to compare the performance of the four baseline forecasting methods. To be more specific,

1. Make a time series plot based on the data.
2. Split the time series into training and testing sets. Please hold up the most recent 10 periods to calculate the forecasting error.
3. Define a time series object using the R function `ts()` using the training data.
4. Build the four baseline forecasting time series models.
5. Create a graph to visualize the forecasted values.
6. Calculate the accuracy measures for the four forecasting models and summarize the results.