Week #13: Assignment

Contents

In this assignment, you are expected to

- find a time series with both trend and seasonality. The sample size must be bigger than 100.
- hold up some most recent observations (14 for weekly data, 12 for monthly data, and 15 for annual and daily data) as test data to identify the best model. The rest of the data will be used to train the smoothing model.
- fit three types of smoothing models: simple exponential model, Holt models (additive, with possible damped pattern), Holt-Winter's models (additive and multiplicative seasonality with a possible damped pattern.)
- Report the accuracy measures based on the training data and forecast errors based on the holp-up test data.
- Make a serial plot of the historical data (training data) and forecast values. Interpret every output chart and table as I did in the case study in my class note for this week (#13).