

程序代写代做 CS编程辅导



Assignment 3
TAT317/ECON323

Due 5pm Monday, 4 October 2021

A reminder that grades help in securing a job and explanation and you are expected to present them properly.

1 Question 1 – 11 Marks

For assignment 3 I have supplied a text file (rainfall.dat). This has the hourly rainfall data at Christchurch for .

- Get the data from the text file into an R time series object.
- Since most of the time the hourly rainfall is zero (0) this are not in the file. Create a complete time series with all 8,784 hours in the year. That is, add the hours with zero rainfall. Plot this series. Also what percentage of the hours have zero rainfall?
- Produce an ACF plot for this series. What does this tell you about rainfall?
- From the hourly data create a time series of daily data
- Produce an ACF plot for the daily rainfall series? Comparing it with previous ACF how similar or dissimilar are they? Explain your result?

2 Question 2 – 9 marks


For this question use the time series you selected for the previous assignments. Use the data from the years 2000-2019 only i.e. suppress COVID effects. It is recommended you use the HoltWinters option in the forecast package.

- Fit the following models to your data using the following methods:
 - Single exponential smoothing
 - Exponential Smoothing with trend
 - Exponential Smoothing with trend and seasonal component
 - The previous model but applied to a log transformed series;

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For the time series of the residuals what you would
ex series model fit? Also from the residuals, which
do model? Explain your reasoning.

b For the values of for α, β, γ ? What does this tell
yo for measured recent data compared to that for
est



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