程序代写代做 CS编程辅导



Due 5pm Tuesday, 14 September 2021

A reminded that graphshelp in Start to the above explanation and you are expected to present them properly.

1 QAssisignmentkProject Exam Help

- a Using one of the time series options from assignment #1 you can use the same one or a different one do the decomposition of the time series using the standard forment of the three companions.
- b Using stl command specify t.window = 5. How are your graphical outputs different? Why (hint: what does t.window option do)?
- c Using the same company as for part (a) do the decomposition of the logged series using the stl command. Comment on the three components. Are the shape or characteristics the values of course will be different of any of the three components different from those from the previous decomposition (crop the lock similar? Explain why a component differs or remains the similar.
- d From the two decompositions would you model the whole series or just part? Justify you conclusions.

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² Q Marks

Using the series regression. You can use either the tslm() function from the forecast package (recomn



model $y_t = \beta_0 + \beta_1 t + \epsilon_t$, t = 1, ..., N to this write the fitted model $y_t = \hat{\beta}_0 + \hat{\beta}_1 t + \epsilon_t$ with and residuals.

- b Using various graphical displays of the residuals (e.g. time series, ACF, Normal Distribution) show and explain why the residuals are what you would expect from a fitted time series needs
- c Fit the regression model $y_t = \beta_0 + \beta_1 t + \sum_{j=1}^{11} \delta_j D_{jt} + \epsilon_t$, where D_{jt} is the estimate for seasonal dummy for months j = 1, 2, ..., 11. Again from your outputs write the fitted model $y_t = \hat{\beta}_0 + \hat{\beta}_1 t + \sum_{j=1}^{11} \delta_j \hat{D}_{jt} + \epsilon_t$. He
- d What is your estimate for \hat{D}_{12t} ? Show your working.
- e Compare the graphs of residuals from this model to those from the previous model. What are the difference of an fairly explain why this is
- f Fit the regression model $\log(y_t) = \beta_0 + \beta_1 t + \sum_{j=1}^{11} \delta_j D_{jt} + \epsilon_t$, where D_{jt} is the seasonal dummy for morth $j_t \in \mathcal{I}$, $j_t \in \mathcal{I}$. (11. Again from your outputs write the attention for D_{12t} .
- g Compare the residuals from this model to those from the previous two models. When a detail from the Salary and Rolain why this is so?