

ENV 790.30 - Time Series Analysis for Energy Data | Spring 2023

Assignment 1 - Due date 01/24/23

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Directions

Before making any edits to this file, please rename it such that it includes your first and last name (e.g., "LuanaLima_TSA_A01_Sp23.Rmd")

Once you have this renamed file open in RStudio, the first thing you will do is replace "Student Name" on line 3 with your name. Then you will start working through the assignment by **creating code and output** that answer each question. Be sure to use this assignment document. Your report should contain the answer to each question and any plots/tables you obtained (when applicable).

When you have completed the assignment, **Knit** the text and code into a single PDF file. Submit this pdf using Sakai.

Questions

Q1. What are your previous experiences with time series analysis, R, and Git?

Answer: My only exposure to Time Series analysis is the module within the Environmental Data Analytics course. As for R, I have taken many classes that require use of R (including EDA) and for my summer internship and Masters Thesis I am using R to conduct my analysis, create my visualizations, and possibly write the report as well. Overall, I feel very comfortable in R and really enjoy using it! Finally, I am fairly comfortable in Git - I used it in EDA, as well as geospatial data analytics, and, finally, through my work this summer, used Git to work collaboratively on a data science project. I broadly feel very comfortable independently navigating git issues, though always appreciate support if I run into issues that I don't know how to address.

Q2. (Only if you choose to use git) Provide a link below to your forked course repository in GitHub. Make sure you have pulled all recent changes from the course repository and that you have updated your course README file as instructed on the recorded video "Getting started with Git and Github".

Answer: https://github.com/maggieoshea/TimeSeriesAnalysis_Sp23

Q3. For this part we just want to see the path to your R project. No need to do anything. The output will be automatically generated once you knit you file.

Answer: This is my working directory:

```
getwd()
```

```
## [1] "/Users/maggieoshea/Desktop/Spring 2023/TimeSeries/TimeSeriesAnalysis_Sp23/Assignments"
```