Final Project

MAS 640 - Time Series Analysis and Forecasting

Assignment

Using data from Zillow - https://www.zillow.com/research/data/ - you will model median sale price (in \$) in a city or county assigned to you. You will present your results in the form of a paper created using R Markdown.

Your paper should include an introduction to the problem and data, your final model and how well it fits the observed data, how and why you selected that model, any assumptions you are making and how reasonable those assumptions are. Finally, with your selected model, forecast median sale price for the next three months and discuss your findings.

Your paper should include any relevant tables and figures, but no R code, which should be submitted separately. Your paper may include an appendix for additional tables, figures, or other material as needed (not required). You can include your R code in the appendix (eval=F, echo=T options added to code chunk), or you can submit the R code separately in a .R file.

I am less interested in whether or not you found some "correct" final model (those do not exist anyway...), and more interested in 1) your ability to explain how you arrived at that model, 2) your ability to communicate results, and 3 AoS Solly 10 10 10 feel a vell for latter tape. X am Help

This is an individual project and you are not to work together. If you are found cheating or using another students R code, both individuals will receive an F for the course.

https://powcoder.com

Submissions

Please submit the following before Midnight on Friday, March 2nd -

- . A PDF of your parend we Chat powcoder
- The Rmd used to create that paper
- Your R Code (if it's in the Rmd, that is enough)

Reading in the data and defining the time series

Please see the following sample for help reading in and defining your data as a time series.

```
f1 <- read.csv('https://raw.githubusercontent.com/lehmannd/classData/master/f1Data.csv')
head(f1, n=3)</pre>
```

Take note of the first year and first month in the data, which we need for the next line -

```
fl <- ts(fl$Price, start=c(2008, 03), frequency=12)
```