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Submissions:

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Don't submit one version with your group and a different version on your own.

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- 1. Don't leave warnings and messages in your document
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- LOOK AT YOUR OUTPUT

A fits fille Wit the less a but power oder

ACF With Trending / Nonstationary Series

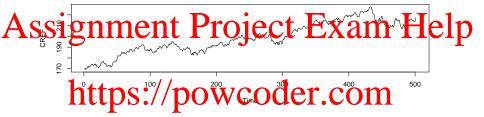
Assignment Project Exam Help the time series plot.

- ▶ ¼'s generally quite obvious.
- https://powoder.com
 - Very slow decay if non-stationary/trending
 - Keep this pattern in mind, if you forget to plot the time series

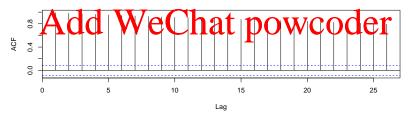
A and it may straight to VCF/PACE, this should help viu realize powcoder

Example with CREF Data





Sample Autocorrelations



Model Specification and Diagnostics

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- What do we mean by model specification?
- I have do we diagnose the appropriatings of a model? How do we eveball assumptions?

 - 2. How do we get p-values to test assumptions?

Specification

Assignment Project Exam Help Specification involves studying the time series plot, the ACF,

PACF, and EACF and trying to determine an appropriate model or models for the data nodels for the da

- Reading ACF/PACF/EACF not always straight forward
- You're trying to find a reasonable starting point, and you want to calle to with that note should with the it

Residual Diagnostics

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- ▶ Residual diagnostics to check appropriateness of the model
- Normality

 https://powe.scieviesm
- Independence

Overfitting

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- After going through the steps to specify a model, you fit that model and diagnose the fit
- httigg sad/yoperweinder teores of overfitting
 - Add an MA term, check results

Overfitting

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When overfitting, you are looking at these things -

hare the added terms significant? Letter the determinations appear to better told (better esidual diagnostics)

3. Did the AIC/BIC improve?

Model Comparison

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▶ There is often multiple models that will fit the data well and look appropriate according to the residual diagnostics

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Want a simple model that fits well

- - ▶ If an ARMA(1,1) and an ARMA(3, 5) both fit reasonably well,