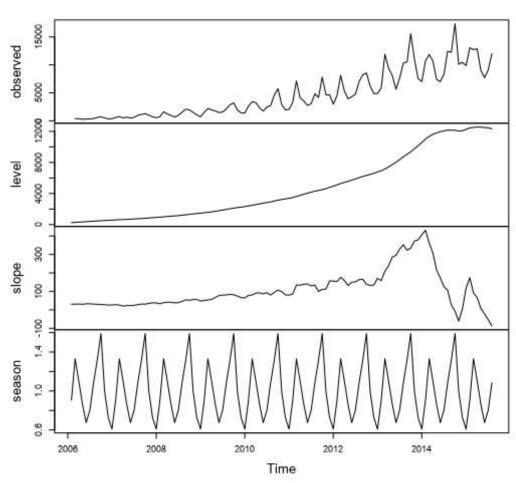
Record

Report

Plots of Time Series Exponential Smoothing Model MAM

In statistics, a time series is a sequence of data points measured at successive points in time spaced at uniform intervals. Examples of time series are the daily closing value of a stock market index or the annual flow volume of a river. Time series analysis comprises methods for analyzing time series data in order to extract meaningful statistics and other characteristics of the data.

Decomposition by ETS(M,A,M) method



Decomposition Plot separates time series data into several components. Decomposition method is often used to yield information about time series components i.e. trend, cycle, seasonal, etc.

- Observed:
This is the
actual data.
- Level: This
is the overal
baseline
without
seasonal

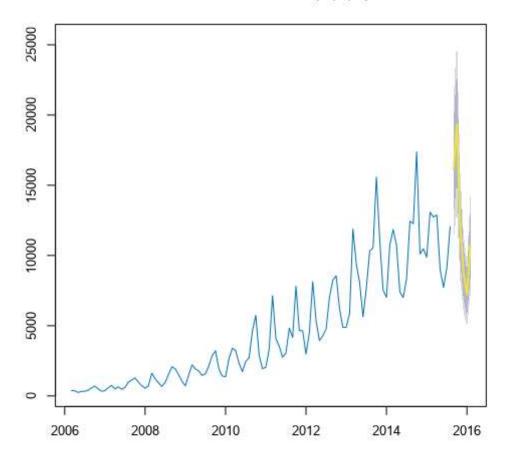
- Slope: This is the rate of change associated with the Level.

trends.

Season: This shows the seasonal trend of the data.

Not all of the above components will occur each time.

Forecasts from ETS(M,A,M)



The Forecast Plot shows the historic data in black and the expected value in blue. The orange in the plot shows the 90% confidence interval, and the yellow shows the 95% confidence interval.

Summary of Time Series Exponential Smoothing Model MAM

Method: ETS(M,A,M)

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In-sample error measures:

ME	RMSE	MAE	MPE	MAPE	MASE	ACF1
-79.7491948	1050.4867424	626.3860015	-0.6915242	11.9712951	0.467887	0.3333564

Information criteria:

AIC AICc BIC 1947.4865 1953.8615 1994.0019

8 Smoothing parameters:

Parameter Value alpha 0.038903 beta 0.027172 gamma 0.000111

Initial states:

State	Value			
I	248.082652			
b	30.520435			
s0	0.904623			
s1	0.608175			
s2	0.727612			
s3	0.995515			
s4	1.590156			
s5	1.316945			
s6	1.083267			
s7	0.80276			
s8	0.674414			
s9	0.862952			
s10	1.102751			