

ARIMA

Fore Costing with Exponential Shorthing if M, s.d., necours On constant overtime.

Key Differences;

- 1. Order of differences. Dth order. (X-Xt-1).
- 2. Prodiction based on previous valves (Autoregressive) order-p outoregressive; how for bade to consider. Exporantial Snorthing = as conder, all the waf back.
 - 3. Using error bade to get order back.

Transformation

1. Box. Cox: Reduce Heterostandasticity (Horogenity of vanionce.) Log-torstown. $t(y) = (y^{\lambda} - 1)/\lambda$

2. Detrending: Time series data. Fit simple regression and suttent away from actual value. price = diserved - y(x)

GARCH.

Generalized. Auto Regracio.

Conditional Heteroslandasticity

Estimate / Foretast the

Variona.

Model 2 is _ than

PCA.

- More Spread Lota explais more variance.

- Seale Value that N=0

- linear transformation, XV,, XV2, V: Eigenector.

The Seal party.

mat(q-1) + (n=8-,2)q = j