

Seasonality of Additive Beesondity.

Mulliplicative Seasonality

Lag plot: York Vs yt

_	line	Sales		
	(t)	(4)		
Jan 2000	1			
feb 2020	2		_	1 n
	3	y _{t-k}	Pa	ST (ver 1)
	: 1		\wedge	va-y!
		y t-1	. 1	
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Picrozi	91	>y f <	5)1	
٦	An 2322	YETI-	\mathcal{J}_{\perp}	
				Future
Í	eb 2012	y _{tt} ,	4	' ' ' ' ' '

Anto Correlation Factor (ACF)

- How many lagged terms should be included. In your model

AR - Auto Repression

MA ->

+ 2SE

$$y_{t} = \beta_{0} + \beta_{1} y_{t-1, +} + \beta_{2} y_{t-2} + \beta_{3} y_{t-3} + \beta_{4} y_{t-4} - (1)$$

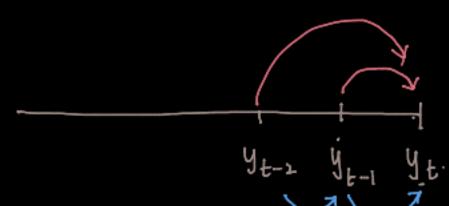


Partial Anto Correlation Factor (PACF)

Parsimonions

Popenie am

miser > Kanjons



Direct Component

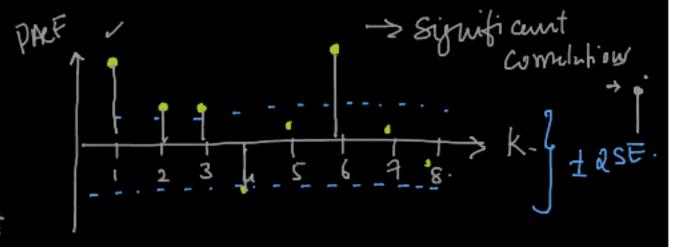
Indirect component -

$$J = \beta_0 + \beta_1 y_{t-1} + \beta_3 y_{t-2} + \beta_3 y_{t-2}$$

$$+ \beta_4 y_{t-6}$$

$$\rightarrow AR =$$

K=1; ACF = PACF.





1. Look for missing data. Bre Mouse 3. Visualize the data 4. Transformations -> (inew trent 5. Build the mudel-1. Maire Models. 2. Miving Average -3. Smoothing technique - Simple Exp. Smoothing (HM+'s method) - Triple Exp. 8mosthing (Hot-Winder Hed) 4. Anto Ryression Models

1. Naive Mod	yttl = (yt).	y 413.	9 t+k = 9t. K = 1, 2, 3, 4,
Jan 2010 25 Feb 28 NAV ATT 26 NAV	6 2 - 3 - 1 - 6 - 5 - 1 - 6 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	3. Rand	on (Nox. Dist) who correctation between EWUS_ ACF.
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Erron Metrics -> Time Series

	_	, A.		Alos.	2	
Time (t)	Porice	3	8=4-3	151	'	Abs. Percent
1 2 3 4	20.5 22 27.63	16 17 31 3. 66	4 2 1 4 5 · · · · · · · · · · · · · · · · · ·	4 1 4 5 '.	16 4 - 16 25 · · · - · ·	4/20 +2/25 1/32 4(27 +5/63 MAPE =
					Ls pm	ISE = V MSE-