Last MLZ session

Time Sories Fornecesting - 5

-> ARIMA

 \rightarrow CI

>FBProphat

-) Exogenous voss

ARWA

-> AR: Auto Regresson AR(P)

9t = diytit diytiz - deti-p + do

past production

P+1 AR (P) 9t = d, yt-1 + d2 yt-2 +-2p yt-p +d0 Key: idea - foture depends on past values MA(9) global mecan Je = M + P, et + Pretz. Prety Key: future value depends on the past error

Mean does not Steetierory · predietes o Actual prediction checias

U1 -3() troe VOLVE P, e +-J+= ر By こナーヤ

AR MA (P, 9)

Ý + = C + 2,9+++2,9+2 +. 2p9+p B,C+-1+B2C+2-. BgC+-P

modas assume Lese stationally inp = mobile_sales.diff() < gred = SARIMAX (L

-1 c vanson () 7 scoles (-!]

Preu. 00 Y = 2 Oct

Ja-110 120 00 MA / APM

Jun 40 intes y [-1]

Z オップ 700 J. COMSON() 951 +11 +10 +10

+ 10 0 and AR(P) MA (W) y z J. مر المراق the view 100

SARIMA (p,d,v) P,D,Q,s)

SARIMA Tail detru FIPKT -> Big Billion Sole

1136
1-SP
2-SP

SARIMAX s endogenous vos りょうこく マックトゥ インタントゥーヤ· + RetitBzetz + Baet-a 8, 9t-s+29t-25+8pyt-e 1 t 5 el Siets + Szet-23 + Sqet + 2, (holiday) + & (GDP) + 5 (horgantratis)

SARIMAY

which model to use!

i) complete meander

L) Scample methods

Maun 100 V R ARMA SES Mend ARIMA Je ersoniti

SARIMAX

SARIMAX