

AR > Huto Kegressive HK (r) AR (2) $= \frac{1}{1} \cdot \int_{t-1}^{t} + \frac{1}{2} \cdot \int_{t-2}^{t} + \frac{1}{2} \cdot \int_{t-2}^{t-2} + \frac{$ $\hat{y}_{t} = \frac{1}{\sqrt{1 - 1}} + \frac{1}{\sqrt{1 - 2}} + \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}}$ AR (3) Apply Linux Pry learn X's Jr. Fit (X, Y)
?
?
?
(m,n) (m,1) Soles 27 14 AR (3) Here imput de outport 20 14 25 20 15 30 25 20 37 25 pd. Series. Shift (3) Better name! MA(q) -> Moving Avg # Frolling arg $M_{V}(1)$ "MAKY Iden": > I should learn from my Previous errors. $y_t = M + \beta_1 e_{t-1}$ MA(1) $\frac{1}{1}$ = $\frac{1}{1}$ $\frac{$

$$\begin{array}{c} \longrightarrow 1/2 & / J_2 & 0/2 \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

$$\frac{1}{1} \frac{1}{1} \frac{1}$$

(predium)

(predium)

$$\frac{1}{3} = \frac{100 + 19}{3} = \frac{119 - 7}{112} = \frac{112 + 3}{112} = \frac{115 - 17}{112}$$

19

-7 t3

AROMA (p,d,9)

integration

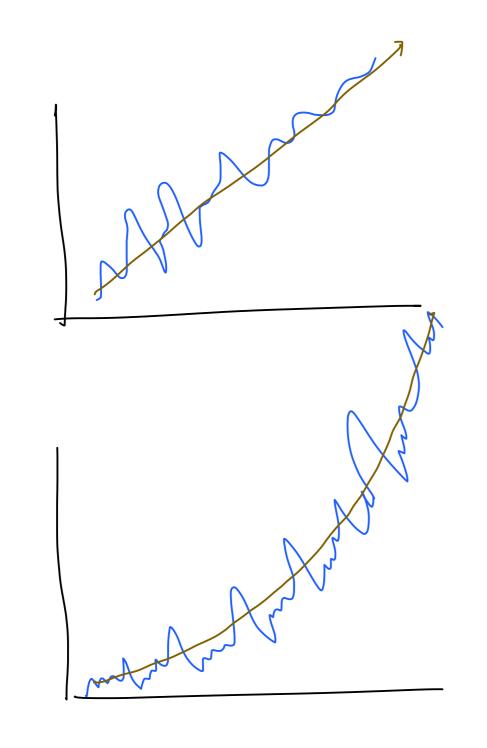
$$d = \{0,1,2,3\}$$

diff

AR, MA, ARMA

integration

ARIMA



b(+)= mt + c

. diff(1)

$$b(+) = m_1 t^2 + m_2 t + c$$
 $b'(+) = 2m_1 t + m_2$

(b"(+)= 2m,

· Niff(). Nif()

SARIMA (p,d,q,p,D,a,S)
L) scasonulity

y --- t-p et-1 et. 2 -- t-q

AR(p)

$$y_{t} = x_{1} \cdot y_{t-1} + x_{2} \cdot y_{t-2} + - - x_{p} \cdot y_{t-p}$$

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SAR(P)

 $y_{t} = \sqrt{1-y_{t}-s} + \sqrt{2}y_{t-2s} + --- + \sqrt{p}y_{t-ps}$

MA(Q)

SMA(Q)

S2Ct-S t 62Ct-25 t ---- & QCt-QS

firely SARIMA-

Δ = C + d1 y+1 + d2y+2 + - - - + dp y+-b + β1 e+1 + β2 e+2 + - - - + β2 e+-9 MA + β1 d+-s + β2 y+-2s + - - - - + β y+-Ps SAR + β1 e+-s + δ2 e+-2s + - - - - + δ2 e+-2s SAR + β1 e+-s + δ2 e+2s + - - - - + δ2 e+-2s

