AIC. Jungcomus, KL

Hedropmembres onpegenence:

Энтрония — сконько в средыем неурско бинорымя вспросов, чтобы узнать значение респизации случайной величими при оптинальной стрателии.

H = \frac{1}{4} \cdot 2 + \frac{1}{8} 3 + \frac{1}{8} \cdot 3 = 1.5 [dem]

B gregheene. 1.5 Benjacq

 $H = \sum_{x} p(x=x) \left(og_{\frac{1}{2}} p(x=x) - \sum_{x} p(x=x) \log_2 p(x=x) \right)$

$$H = -\sum_{x} p(X = x) | n p(X = x)$$
 (natural bit)

Hego. onjeg. 2. Franzismus H(x) - circulose B crequent Jun y xegum vid repegary ognoso zuareveus c.b. X non onnumentatione vogupebelselle

H = - (0,09 log2 0,99 +0,04 log2 0,01) x ×9024

Ya , YT

$$H(Y_1, ..., Y_T) = -\sum_{g} P(Y_1 = y_1, ..., Y_T = y_T) \cdot IN P(Y_1 = y_1, ..., Y_T = y_T)$$

Cucrusto b gregorem Seem megogruagum mysicuo une El nepegame norty celly to butopry, ean unwilled vegens uzlecura odena cuapanan

$$H = -\int_{-\infty}^{\infty} f(x) \ln f(x) dx$$

$$-\int_{-\infty}^{\infty} f(x) \ln f(x) dx$$

Omnocumeroras surponus/

$$2C$$
 1 2 $\sqrt{3}$ $\sqrt{5}$ $\sqrt{5}$ $\sqrt{5}$ $\sqrt{2}$ $\sqrt{4}$ $\sqrt{2}$ $\sqrt{4}$ $\sqrt{2}$ $\sqrt{4}$ $\sqrt{2}$ $\sqrt{4}$ $\sqrt{2}$ $\sqrt{2$

RE(PIQ) = CE(PIQ)

CE-crequee voiencembe longoob ruedes yzvamb X, eau cupyknypa Bonpoed (vog) onprincemble vog Q, a venimme bep-u-P.

$$CE(PUQ) = -\sum P(x=x) \log_2 Q(X=x), Sum$$

$$-\sum_{-\infty}^{\infty} f_p(x) \cdot \ln f_Q(x) dx, man$$

Duberrennens Kynbauer-Lændreper DKL(PI(Q)= KL(PI(Q)

- 1) P we znown 2) OSWYNO \hat{M}_1 u \hat{M}_2 nonynowence B uprogecce M_1 BuSopa regerent $Y_1,...,Y_T$ (NS,10) $Y_{t}=u_{t}+u_{t-1}+6$ 1) Organism $KL(P1|M_1)$ melozwence $U_{t} \sim N(O,4)$ (S,10)
 - 2) The ones worms negrocollows nonche ogennus KL(PIIM1) - KL(PIIM2)

Mset 1 - ETS
Mset 2 - ARIMA

Mset 2 - ARIMA

Train Sec

AIC - Axaixe Information Criteria $\frac{AIC(\hat{M}_1) - AIC(\hat{M}_2)}{2} \approx |KL(P || \hat{M}_1) - KL(P || \hat{M}_2)}$ AIC(\hat{M}) = 2. K - 2 ln L $\frac{1}{1} |K(P || \hat{M}_1) - KL(P || \hat{M}_2) - KL(P || \hat{M}_2)}$ $\frac{1}{1} - MONROW MAN OF THE PROPERTY OF THE PROP$

"uperguguerroux" LR-necu.

MSET? Ha: PEMSET! PEMSET? DEMSET?

 $LR_{test} = 2 \left(\ln \hat{L}_{2} - \ln \hat{L}_{1} \right) LR \xrightarrow{Ho} \mathcal{F}_{k_{2}-K_{1}}^{2}$ $MSet 1 \quad \text{$y : $\sim exp(du:+p), $u:-i:d$ $\mathcal{N}(o,1)$}$

M = 2 y : 1 N(M, 1) ; id $y : \in 2 y_1, ..., y_7$

1) MSet 1
$$y_1, ..., y_t \sim ETS(A, A, A)$$
, $m = 12$

$$\theta = \begin{pmatrix} d \cdot \beta_1 + 6^2 \\ lo \cdot bo \\ so \cdot s_1 \cdot ..., s_{11} \end{pmatrix}$$

$$MSet 2 \qquad y_t = d + \beta_1 y_{t-1} + U_t \qquad U_t \sim N(0.6^3)$$

$$t = z_1, ..., T \qquad \Theta = \begin{pmatrix} d \\ \beta_2 \\ 6^2 \end{pmatrix}$$

$$f(y_2, ..., y_T \mid y_1)$$

Maguu garren Sumb orgenend na
ogeneerebux garenux
2) Abmeru nakeneb norgin no-peizrealey
serragiumb rpumepuu

AIC, AICc, BIC, HQIC