Bayesian Model Comparison

f(210, M) Tr(0/H) P(01d, M) =

M

whee Zn= P(d/M).

Zn= (10 2(dla, n) 51 (0(n))

Sypas we have the applity competing modes

12th models describe some d.

L(d | hh, A) of Bet making gradiching of the same date d.

whats wrong with using Max Libelities Refised selection statistics?

MLR = MAX & G(dILA, A)

manx & (21/16,13)

herans

O free parems free parem. 3(t) = 40 $\chi(t) = \lambda$ Model A: Medel 13:

 $g(t) = \begin{cases} g(t) = 1 \\ g(t) = 1 \end{cases}$

exe = (5:-1), f(D)B)

(3) (= garyle men (g:) = 1 2 (S) > & (D/A) may & (D | 1, B) =

prior odds refie. the imperor A is the coned mubel. orthy op #6) P(D/A) P(A) as a process as stale as parallelye. P(BID) F(AID) Posterie Ods Redie = Oxis = inference con Suyesian input te Datosian solution Orie 1 of ds

P(H) the penetrs of mobil A St (da (A) prior PDF on ler apteby pros. 3 " SIL P(DIA, LA) (P(LA 1A) « LAB & (DIAB, B) TI (AB13) 16 P(D(B,13) P(101B) 3 3 , Sha & (D[ha, A) 51 (ha (A) JUB P(D, 115(B) John P(D, 1/4 / 4) 3(3) P(D14)

Qx, B = OC, A

04.8 = 24

we noted to calculate the the evidency

ZA - (MA & (DI /2, A) J (M(A)

(D/A)

erg (- 1 5;) 12H

No tree faran, just endeade the

2/= 1.4 × 10.0 (iteles out pr 1

ZB= (dle & (D(ha, B) JT (ha I B) = (211) & (DIL, B) or (1113)

J (A 18); I (-2,1) (A) exp(-2 (4:-1)2) 721 we need our find price f (D(1,18). T

uniform pries a

2(d) 1 OA OA TO CON(-2 (5:-1)?) 1.45 ×10-3 () BZ - (1) = 87

models that are more "platiste" have lone 2 "Occan penty".

makes been precise predictions per duta-A medial is price plusiste it his - few pereorders. - neces prior rayes. Bayesian informe noteully pending plansing plansing complicated models by applying according the