Midel Chaking (C46)

· Need tools to assess (a) fit and (b) production

Main Bayesian Tool: Posterior Prediction Check

· Sample "replicated" data yrep and compar to yobs

Rock: Year has identical explanating variables (contrasted to \$\forall predicting data)

Has same posterior

Pryyly)

Then to sample you we just need to

For the actual churk, need a text function T(Y, 0) - discopung measure

T chosen to capature aspects not cound by the model

eg. Ranks/Gundiles and Combations

Baguian Stat:
$$P_B = \mathbb{P}\left(\text{T}(y^{rep}, \theta) > \text{T}(y, \theta) \mid y\right) - P_{rub} \text{ over}\left(y^{rep}, \theta\right)$$

$$= \mathbb{E}_{y^{rep}, \theta \mid y} \left[1\left(\text{T}(y^{rep}, \theta) > \text{T}(y, \theta)\right) \right]$$

Q: How do you meaner discrepancy? May just be better to directly compare dist.

Rmk: Not conducting atcst.

$$\frac{\chi_{K}}{|\mathcal{S}_{j}|} = \frac{\chi_{j}}{|\mathcal{S}_{j}|} = \frac{\chi_{j}}{|\mathcal{S}_{j}|}$$