Non-Parametric model: Parameters keeps on adding. Doesn't mean 9+ has not parameters.

$$P(x) = \int_{S} P(x|a) \phi(a) da$$

Conjugate priors:

Grayssian Ky Crayssian

Data Comes from gaussion & mean of gaussion also comes from gaussion.

Multinomial Distribution: moders the probability of Counts for each of K'-sided die volled n-times.

I generalization of binomial distribution.

Lecture-42 Evaluation Measures 1

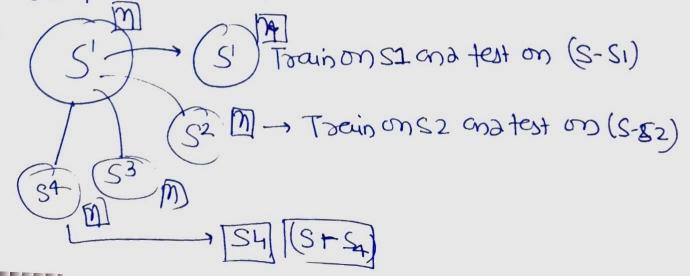
Why to divide Fraining datasets into multiple sets

- because - Variance of model decreases, it we train it on multiple datasets.

Criven in independent observations $\sqrt[8]{2_1}, \sqrt[7]{2_2}, -\sqrt[8]{n}$, each cuith variance σ^2 , the variance of mean $\overline{2}$ of the observation is given by $\underline{\sigma^2}$.

BOOTStrapping & Cross-validation

sample with replacement.



K- FOLD CROSS VALIDATION

Cuhich one gives better estimate? bootstrap/cooss validation No. of samples are sufficiently large: bootstrab. (67% Train)

bootstood is basically used to estimate the vovionce of model like (mean of distribution.)

voviotion of)

| Rocess of creating k > (5 to 10)

but increasing k => more biasness, => we need to choose 'k using blas/variance reduction.

Class 1 \$2

STRATIFIED SAMPLING, Data Should have same propostion in all Folds. before CV.

MBALANCE DATASET: Fewer No. of polds.

Since on Minosity class Pobulation is very low,
own models needs to have good amount of minosity
class in Training DATA: