```
prior = p(H). postulor - p(H/O).
   there are 10 hypothesis, what is the probability of h being the underlying hypothesis?
     pn or p(h)
      this is computed without looking or me data
  what is the probability of the Data D to
     in h? dn
                                ( T. product)
        TT P(D=d/H=h)
d=d4
          or p(DIn)
      min is well hood
P(LID) & unushood x pror
  p(h|D) = p(D|h) * p(h)
ai per hayeron heorem
posterior likelihood
      PCD) com also be univer as
     f p(0/h) + p(h) dh
   Domain
of h
```

Given the Data-D, given that we chose hypothesis = h, what in P(x=x)? P(X=x |D) = P(X=x | H=h) h could be chosen based on (1) max prior (2) man likelig hood (3) max posterior What If me me all the hypothesis. meignted by posterion? (X=n/h) p(h/D) p(x=210)= h=1 heJH Bayesian Averaging ? Sants in cases where posterior

prob of multiple hypothesis are close by.