Noive Bayes No Legs Height Sinelly Species Tall N 5 Y 5 N H T N H 21115 11 4 P(N) = 1/2, P(H) = 1/2 We have the subtable based on the geatures Colon M M Leg M H 3/4 0/4 Height M H
Tall 314 214 Smelly M H P(New metance) while new instance (color - Green / legs = 2, Height = Tall of smelly = No) THE MENT OF **M HONGHA**

Date No.
PCM (New Instance)
- Protective /
P(M) * P(Green M) * P(100-1M) * P(Tall IM) + P(No) 1
A A . 1 7
= 0.0117
P.C. Hard
P(H New Instance) -
P(H) * P(Green H) + P(21H) + P(Tall H) + P(No 16
= 0.047
While PMNew Instance) & PMI New Instance)
While PMINEN Instance) & PMI New Instance) - Hence the possible of New Instance may be H
b) As we can see the probability R(3/H) = 0/4
Using Paplace smoothing, we can represent P(1 / Positive)
= number of review w' and y = positive + X
N+X*K
represent smoothing parameter
K number of dimensions
N jumber. of reviews with y = positive
3/03
P (3 legs 1H) = @(Instance of whate color) +1
4 (total M metarics) + 3 (totall de
2 1
£ N
14 5/2
P(2 legs 1H) = 4+1
Significant patri protein 4,7 2
WI HONGHA
Cartifold Miles