Ryal Schraeder 10/16/2022

## Naive Bayes Corrections

1b) Probability of pleading guitty given not sent to prison: 50% Probability of not sent to prison and pleading guilty (P(NPIG))  $P(\sim P|G) = P(G|\sim P) \times P(\sim P)$   $P(G|\sim P) \times P(\sim P) + P(G|P) \times P(P)$  $= .50 \times .58$ .5 × .58 + .38 × .42 = ,29 .4496 = .645 7 65% ld) Probability of pleading guilty and being sent to parison P(P1G) = P(G1P) x P(P) P(G1P) x P(P) + P(G1~P) x P(~P) = .38 \* .42  $(.58 \times .42) + (.5 \times .58)$ = 1596 -> ,355 > 35.5%