Bayes Practice Problems 1. "watch arine row" P ("watch anive row | spann) = P("watch/spam). P("anine" spam). P("non" spam) = ,095.,095. p("now? (spam) pember of tives "unu" occurs in all Spam +1 court of all was in all spains + & nunse of entre word vall 2 - 2 = .095.095.095= (8.595e Pl"watch arive raw" not spar) -P ("with Int span). P ("anive" Intspan). P ("how" Ind span = 1053.053.053 = 1.4780 wall arise now I most tirely (spain)

Bayes Practice 2. I takeout and anime at my house P("tuke out and anive utay house I spann) = P(talecit Ispam). P("anire tspam). P("my" I spam). P( Thouse I spam)= DI = .0476 .0476 .095 .0476 .095 = 2.04480 Pl"tareout and anire at my house Manspam) = P("takeout non span). P("anine" nonspan) · P("My" | Nonsporm), P("house I wansporm) = .105 . .053 . .053 . .100 = (3.09690) Most likely not span

Practice 3. "soll we your arrive collection" P("sell re your anire collection" I spam) = P("sell" span). P("he" span) ~ P("yor" Ispan). P(anire" span). Prolection span) =(1.9539 e-6 Plusell re your arise collection Transport 19 & = P("sell" Inov-spam). P(het/von-spon) + 19 4 ( ("your" | glon-span). P("anire" / rompan). 19 to e ( ( (olledentron-span) 4. 1. 1. 1. 1 = 4.0386e=7 ALA Most (rey Spam)