Logistic Regrewion: clawify smalls as sparn on not being the sparn dataset. Imposed pandas as po from skilearn model - Sciection Imposit tousn - teet - split from SIs lear linear-model Import logistic Regnere ion from sklear metrics import classification_ from stilear preproceeding import standard salur Pount (" Datalet preview:") porint (df. head c) x=df.dop('Spam', ancig=1) y=off spam J-10 fgo Amail me-ins x-train, x-teet y-train = train -teet - Split (X, y, teet - 8,20 = 0.3, nandom - State = 4,2) Scaler = Standard Scaler () X-train - Scaled 5 Scaler. Fit - transform (x-train) X = deet - Scaled = Scaler . Inans form (X-feet model = logistic Regression () model · fit (X-tolain - scaled, y-tolain) Y-posed = model · posedict (X- text - scaled) Pount (" In Confueion Maties: ") Porint (confusion - matura (y-text, y-pored)) point ("In claverification Report:") pount (Claus fication_neport(y_seet, y-pored)) Pount ("In Accuracy score:") Port (accuracy - scoore (y-tect, y-pored))

Output: Dataset preview: Date____Page__ wand-free-mate wand-free-addus woond-free-aw. 0.00 0.64 0.64 0.0 0 0.31 0.38 0.50 0.0 1 0.06 0.00 0.41 0.0 2 0.00 0.00 0.00 3 0.00 0.00 0.00 ward-freez-ander ward-freez-mail: "char-frez-; chart 0.00 0.000 .0.00 0 10.00 bang 0.94 by 0.000 0.000 0.132 10:640 1000 500 00 00 00 00 143 2 1. 1010.3/2010 1010.630190 00 000 000 00 D. 134 0.00 0.138 0.81 4 ward-kreg-audin ward-keeg-own ward-suman wart-in 0.00 0.32 Dodg water Orooney 0 0.14 0.280 C. 19.21 0.07 1 1.23 (1. 2021 9 1000) 10001.9000 0.12 2 Capital-aun lingth capital-aun lingt | Capital-aun-gan 3.756 3601 June 5. Hayman 1010 - 102 1 1088 1 9.881 0 4485, 4. 194-13 100 3537 - El. 10 20 100 100 - 196 191 Confue on Matinia : 1000 > 12 1000 = 10000 ([769,35] bolos - alota x 1 18, vices 6 671506 DJ X) 1969.07 · 106001 · 6000 -Clave fraction Report : Précision récal Al-score support 10 hours 049 20 0096 0094 1804 FF31 19.02 8800 2018 P. Ogast 41 tet 4 accuracy 3 mm process 60, 92 181381 macoro aug 0.93 0.92 0.92 11881 weighted aug 0.92 0.92 0.92 1381 Accuracy ocone: 0.9832440260680664