Given a list of numbers for (learning algorithm algorithm vs - subject mity (example data)
past expensive) -fixed set of siles - deterministic - fromny de to O Deernmy allect Dstore 1 AAAAA (1) past experime.

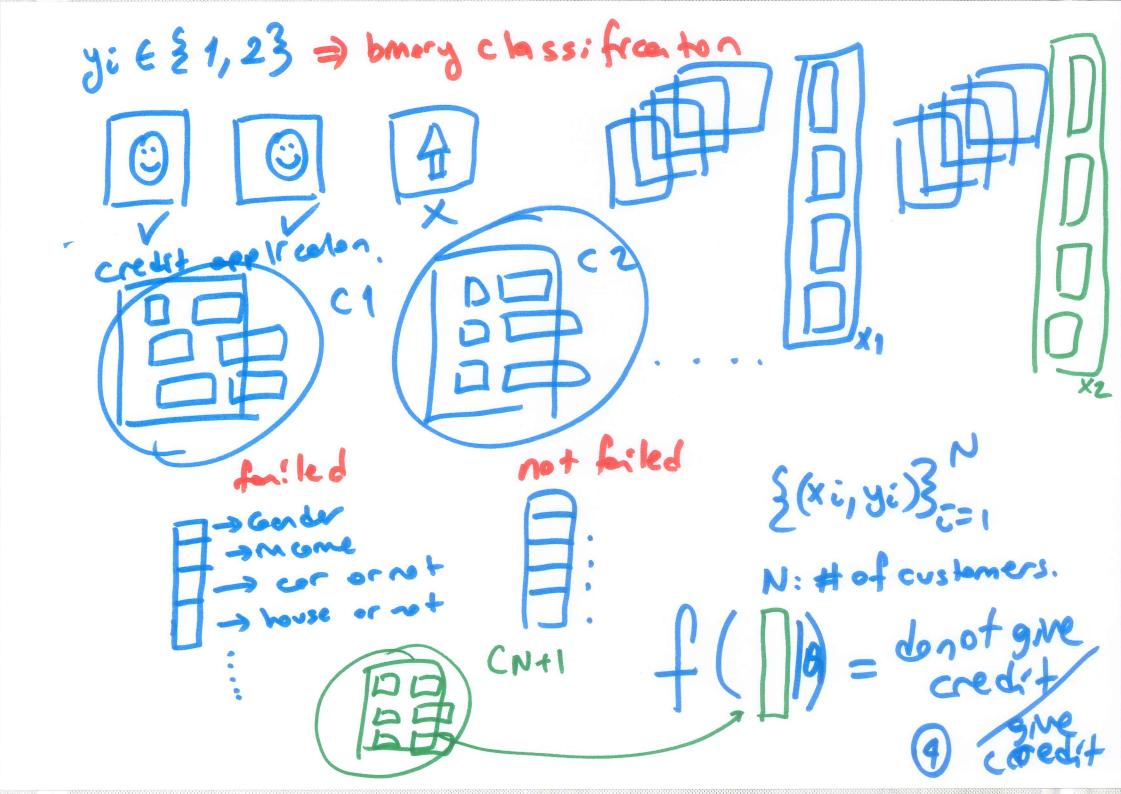
Machine Learning: programming computers to ophimite a performance criterion using example date or post expersed. depends B B 32.5

on the for C C 2/3 = 66.66% absolute error

application D D 2/3 = 66.66% | 1y-9| 32° → 315°C Association (Basket Analysis) p(product 1 | product 2) # of beskets that
cohlown both poroducts PCAIB) => Conditional probability #of baskets that P(product1 | product2, product3) Gaten product #2 p(product 1 | product 2, gender)

0

 $\chi = \{(x_i, y_i)\}_{i=1}^{N}$ Supervised Leerning: Xi: ith data pomt yi: ith label. a set of pers {(x1,41), (x2,42), ... - (xN,yN)} 20 A (1) 31=A { ([],0),([],0),...} 20 B X2 y2 = B f([]) =? D-dmessone 20 0 XN YN=0 xiEIR Synth = ? Milli- Classification 3 di E \$1,2,...,29



Regression: 2= {(xi,yi)}. 2i EIR, YiEIR) Xi EIR5 y: EIR2 t tt1 tt2 tt3 tt4 tt5 Unsupervised Leorny: $x = \frac{3}{2} \times i \frac{3}{3}$ => customer segmententen