rage
10 Labroson (00) minv . 20 Heroson
. To Build a KNN classification model for the
: (great datasies. () 1 = [- 12 + 1]
60500 1 - 1-H - 1-01 - 1-101
O. Consider the following dataset, for K=3 &
test data (x, 35, 100) as (Person, Age, Salaryk
some vering KNN darsifier model & prédict
the target.
(00) 1 - (00) H - PORPO -
Person Age Salony K Torget
H 18 50 PN-0.0
B 23 815 8 .055 - (0 . N) 1000
1 (Cusing 1-124 FOF(70 . (FON2) NOND
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
· E 43 70 Y
F 38 1 40 1 1
135 1 100 mor? 100
Agrico Para funto cello por report at procurary
1 80 Distance = 1 (12-41) + (42-41)
with the wasting the same of the same
1 A(18,50) = 1 (35-18) 4(100-50) = 152181
B (231.55) = (35-23)2+(100+55)2=146.59.
C(24, 70) = (35-24)2+ (100-70)2 = 31.95
D (41160) = (35-41)+(100,560)2 = HO.45
E (43, 70) = 1(35+43) + (100-70) = 31.06
F(38,40) = (35-38)2+(1001-40)21= 60.08
Continues to the pool
Sort by inteterne
£ (43 170) 713106, -3- Y
C(2H170)= 31.95 -> HI
b(M1.60) = FO. 45 -5 Y
Majoraty is y
. (x,35,100) = Y

1. Consider Ing actack to build knie - clarifier tyd was fortherman days -> How to choose the R value? Considering: M.X = 1000 to by * Acceracy Rate: Proportion of cornect precention [Higher accuracy is better] + Essor Rate: Proportion of incorrect prediction [hower rate is better] Tested K-valuy from 1 to 20 and calulated accuracy & enot raise for each on the turk set and choose the optimed know Example: K=1; Accuracy = 0.9667, Forer = 0.0333 Accuracy = 0.9667, Extor= 0.0331 K=3: Accertely = 1.0000. From = 0.0000 K=15; Herorocy = 0.9667, Frov= 0.033) : K=5 has been choosen. 1. Counder Diabets dataset to boild KNN danife -> henced is the purpose of feature scaling? * KNN relles on tochdom destance blo adapoin nothout scaling, features with larger rouges dominate over those with snother range * Footone scaling is used to suprous model performant by treating all feature equally.