Thinking Machines
https://thinkingmachines.in

Regression

height (x) age (y)

Target - weight

Qn x -
Qn y -

? weight

Numeric value to be classified

K 5

Last part of process changes

Top k elements

distance Target mean

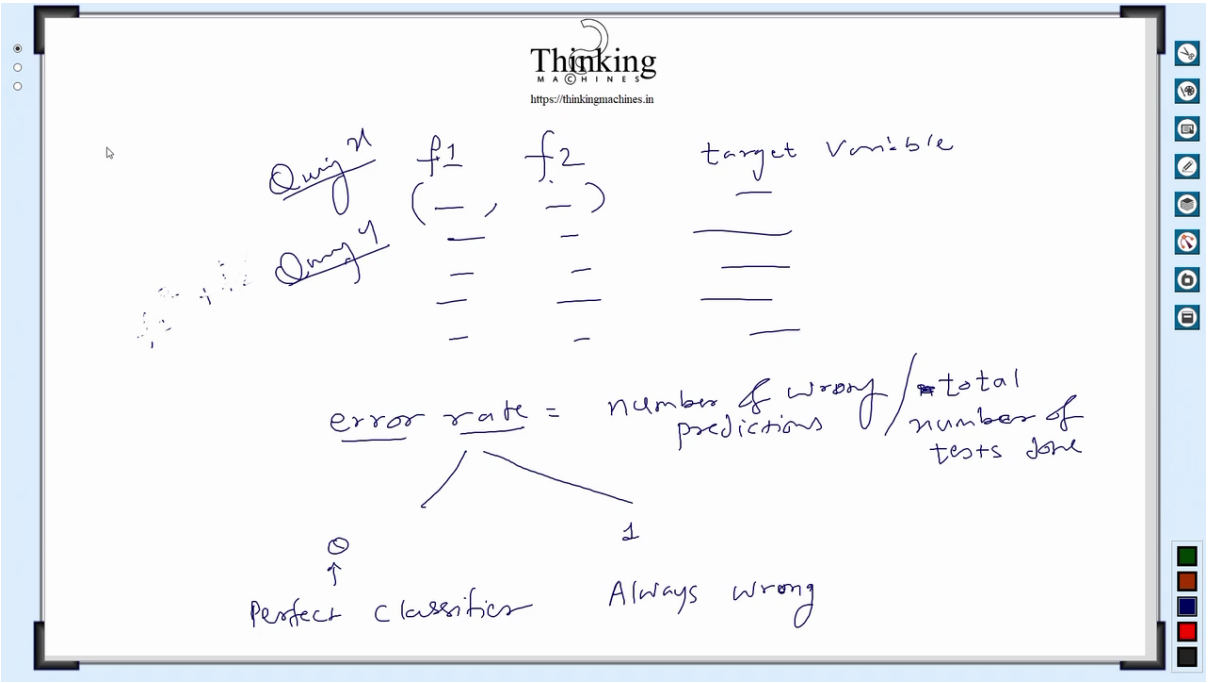
Thinking Machines
https://thinkingmachines.in

f1 f2 f3 f4 f5 Target

Qn x f1 ~ f5

$\sqrt{d_1^2 + d_2^2}$

$d_1^2 + d_2^2 + d_3^2 + d_4^2 + d_5^2$


Thinking
MACHINES
https://thinkingmachines.in
Query
f1
f2
target variable
Query
error rate = number of wrong predictions / total number of tests done
0
1
Perfect classifier
Always wrong

Thinking Machines
https://thinkingmachines.in

f1 f2 f3 f4 f5 - Tag

query

f1
f2
f3
f4
f5

$\sqrt{d_1^2 + d_2^2}$

$\sqrt{d_1^2 + d_2^2 + d_3^2 + d_4^2 + d_5^2}$

Thinking Machines
https://thinkingmachines.in

target = TMKNNClassifier(a, b, c, d, query)

A f1 f2 f3 f4 f5 t

B

C

D