

TUESDAY
DAY (049-317)
5th Week

MLFA

KNN & DT

Feb Feb

1.)	x_1	x_2	y
1	-1	-1	2
2	-1	2	1
3	-1	4	1
4	0	-1	1
5	0	0	1
6	0	3	2
7	1	-1	2
8	1	0	2
9	2	0	3
10	2	3	3
11	-1	0	?

FEB	S	S	M	T	W	T	F	S	S	M	T	W	F	S	S	M	T	W	T	F	S	?	M	T	W	T	F	S
20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

For sample 11:

$k=1, \Rightarrow$ Nearest Neighbours = samples 1 & 5.

$\Rightarrow Y_1 = 2$ and $Y_5 = 1$.

(4th a tie).

\Rightarrow Increment $k, k=2 \Rightarrow$

Nearest neighbours = Samples 1 & 5.

(4th a tie)

\Rightarrow Increment $k, k=3 \Rightarrow$

Nearest neighbours = Samples 1, 5 and 4, 2, 8

$\Rightarrow Y_1 = 2$

$Y_8 = 2$

$Y_5 = 1$

$Y_4 = 1$

$Y_2 = 1$

\Rightarrow Final Y for sample 11 = 1

~~Final Y for sample 11 = 1~~