

predict					
Age	Loan	House Price Index	Rank	distance	HPI
25	40000	135	9	102000.003	135
35	60000	256	8	82000.001	256
45	80000	231	5	62000.000	231
20	20000	267	10	122000.003	267
35	120000	139	2	22000.004	139
52	18000	150	11	124000.000	150
23	95000	127	4	47000.007	127
40	62000	216	7	80000.000	216
60	100000	139	3	42000.002	139
48	220000	250	6	78000.000	250
33	150000	264	1	8000.014	264

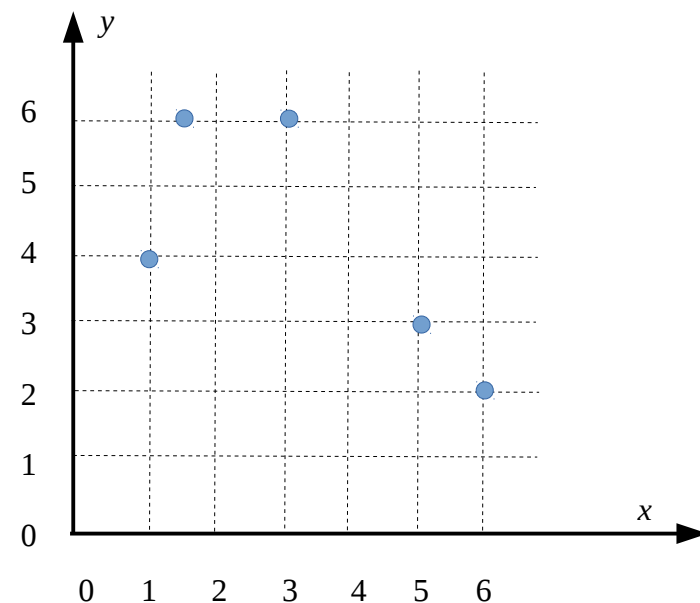
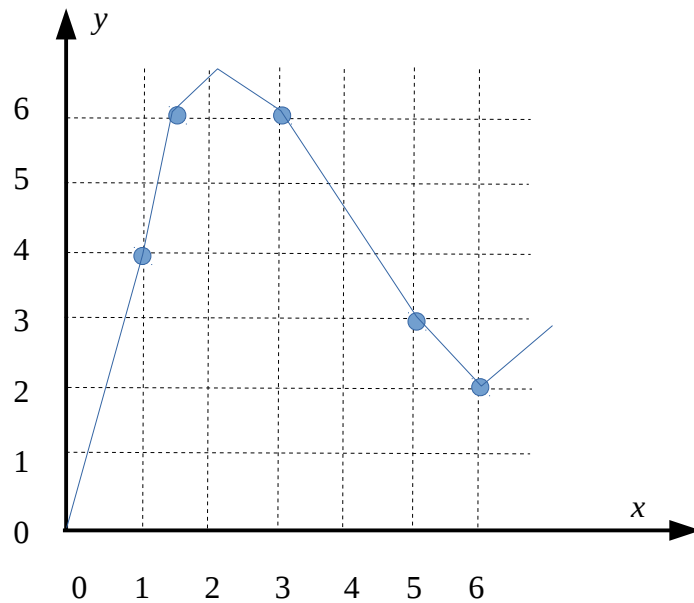
rank	House price index
1	264
2	139
3	139
4	127
5	231
6	250
7	216

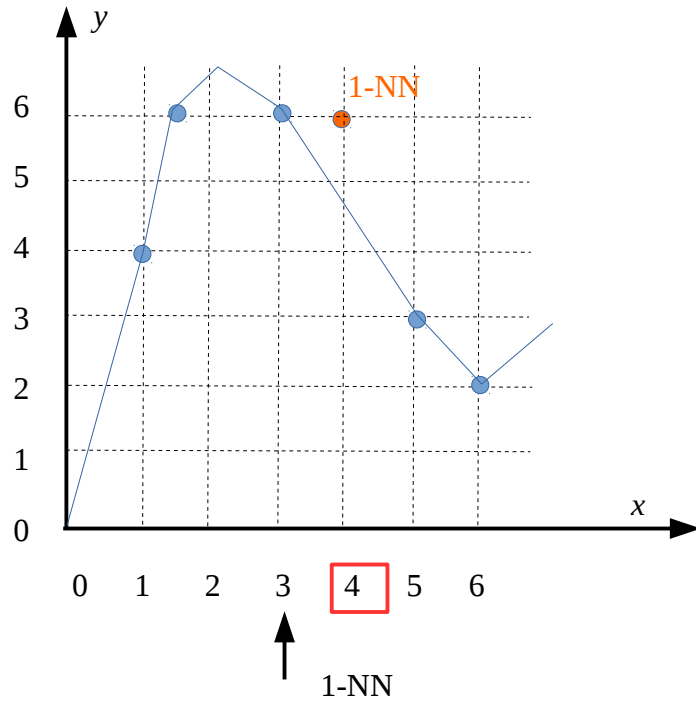
K	HPI
3	180.667
5	180.000
7	195.143

Try to predict House Price Index (HPI)

48 142000 ?

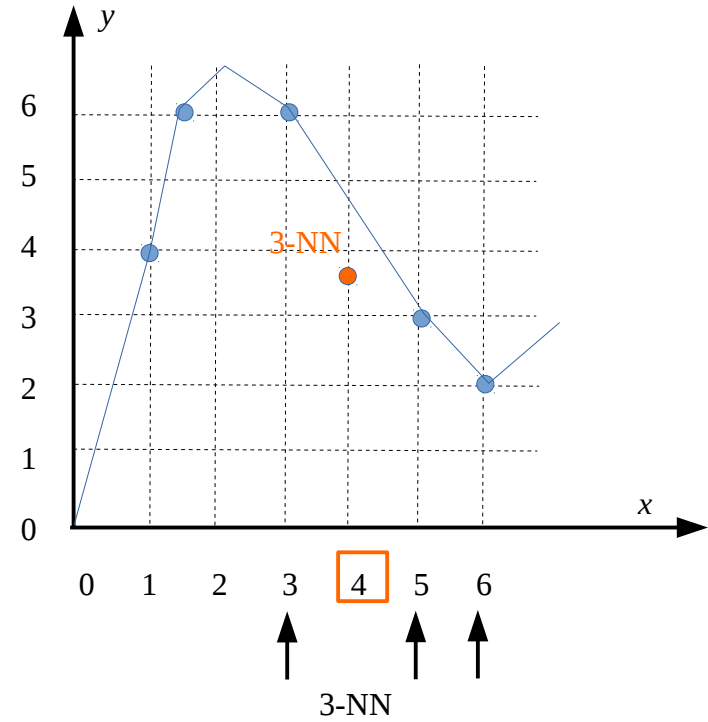
KNN regression in 1-d





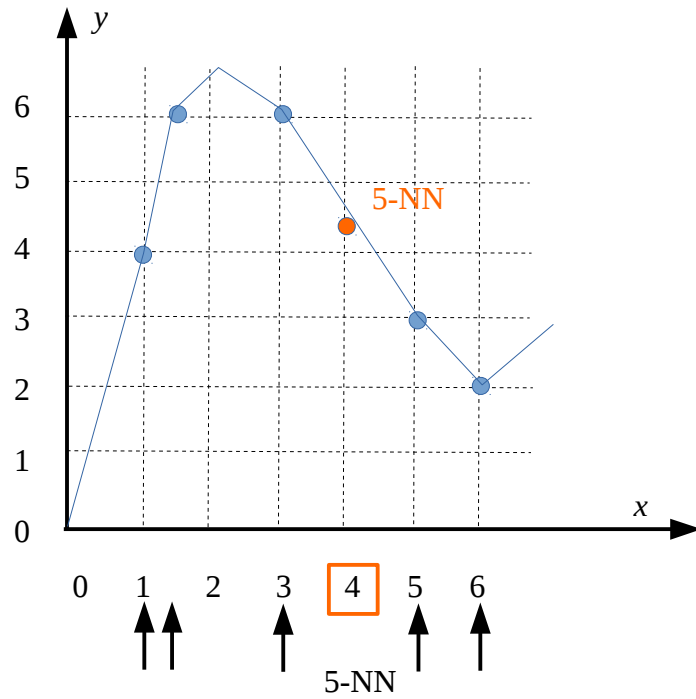
The closest is $X = 3$
Then, the value of $Y = 6$

New value = 4 6



The closest is $X = 3, 5, 6$
Then, the value of $Y = 6, 3, 2$

New value = 4 3.667



The closest is $X = 3, 5, 6, 1.3, 1$
 Then, the value of $Y = 6, 3, 2, 6, 4$

New value = 4 4.200