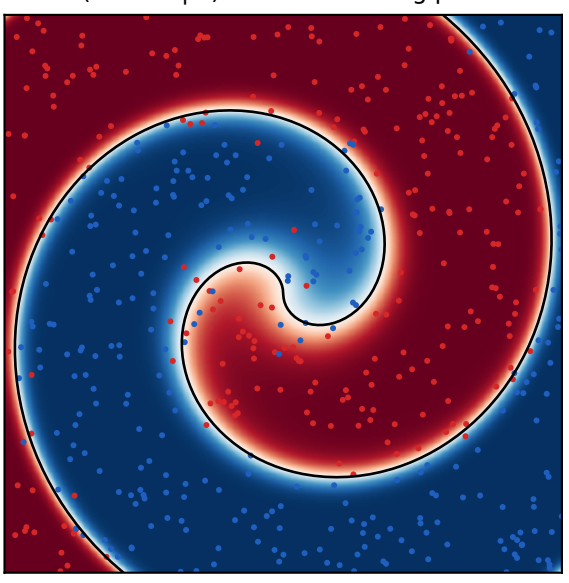
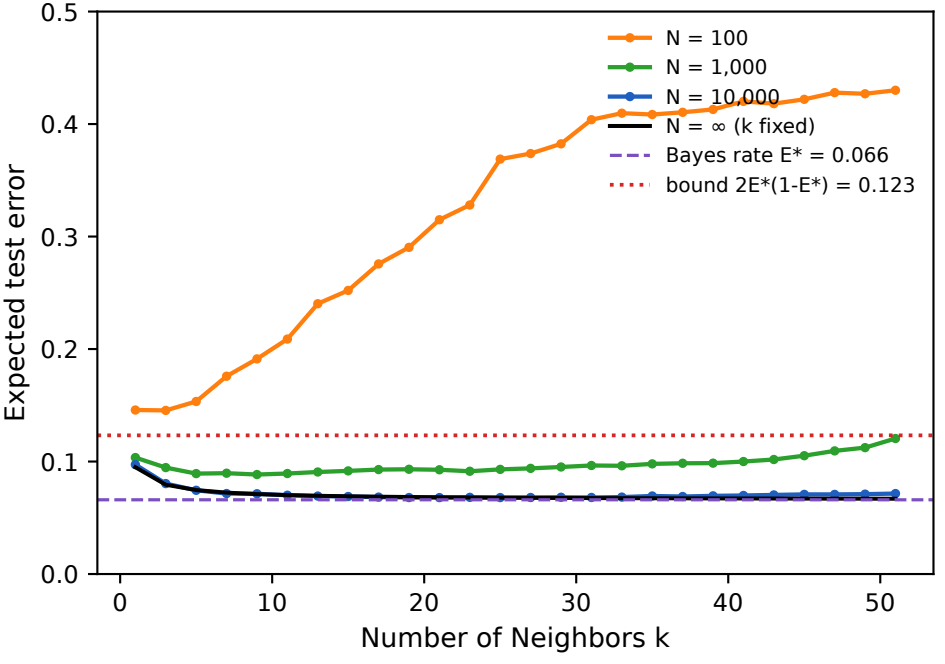

Pr(class 2 | x) and 500 training points


N = 100
N = 1,000
N = 10,000
N = ∞ (k fixed)
Bayes rate E* = 0.066
bound 2E*(1-E*) = 0.123
Expected test error
Number of Neighbors k
0.0
0.1
0.2
0.3
0.4
0.5
0
10
20
30
40
50