Group Homework Credit

Group G Task

(to be presented on October 13)

Non-parametric Density Estimation

Dataset O={x1,x2,x3,x4}

Data Points:

x1=(1,1), x2=(4,4), x3=(5,5), x4=(4,7)

Query Points:

q1=(1,0) and q2=(4,5)

Tasks:

Assume Manhattan distance[[1]](#footnote-1) is used as the distance function.

a. Compute fGauss (q1) assuming bandwidth σ=1

b. Compute fGauss (q2) assuming bandwidth σ=1

c. Compute fGauss (q2) assuming bandwidth σ=3

d. Interpret the 3 results!

1. d((x1,y1),(x2,y2))= |x1-x2| + |y1-y2| [↑](#footnote-ref-1)