Number of samples = number of bins=100

Name: Nitish Kumar Thakur, Roll No: 21531010, #bins: 100
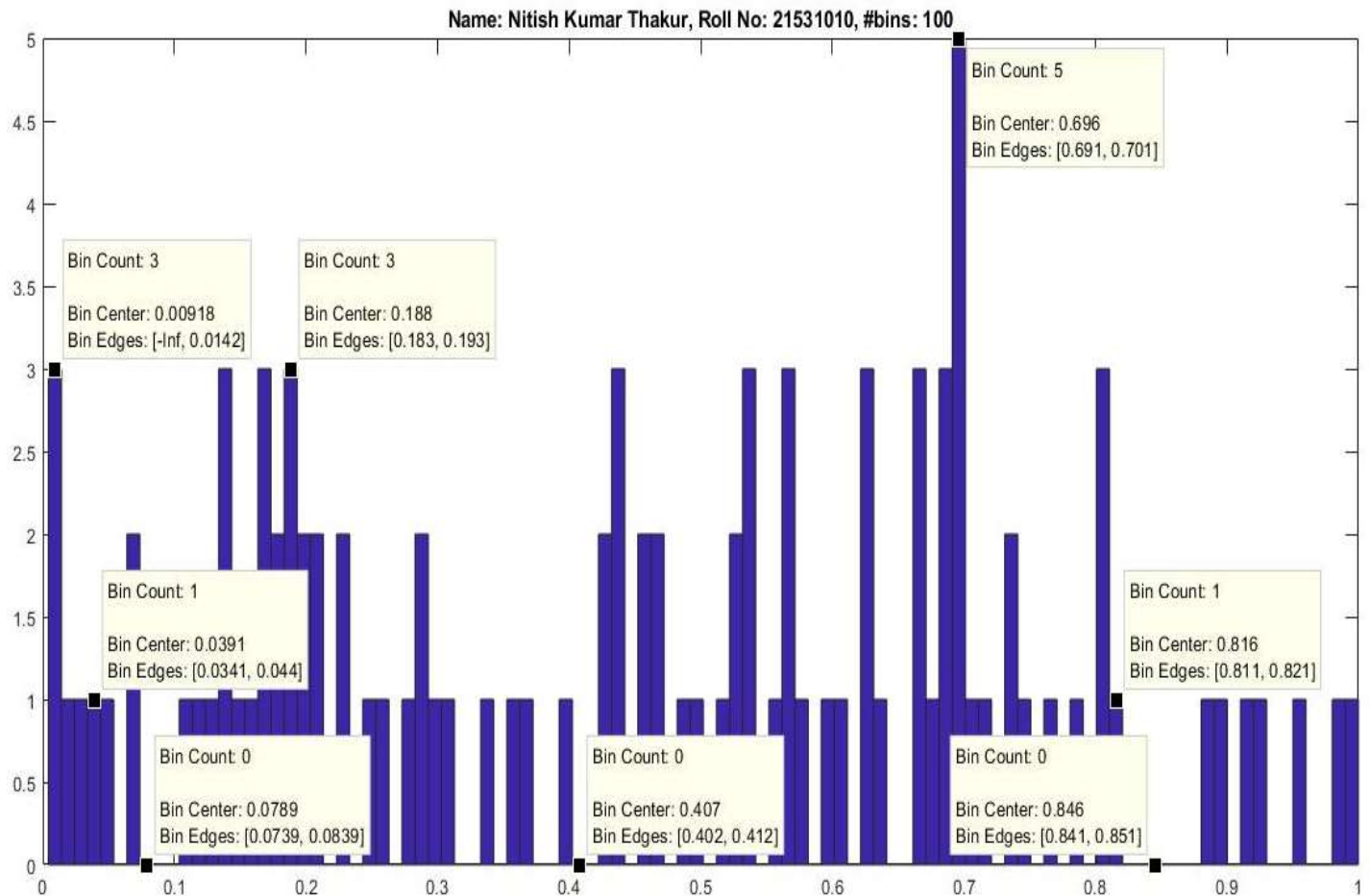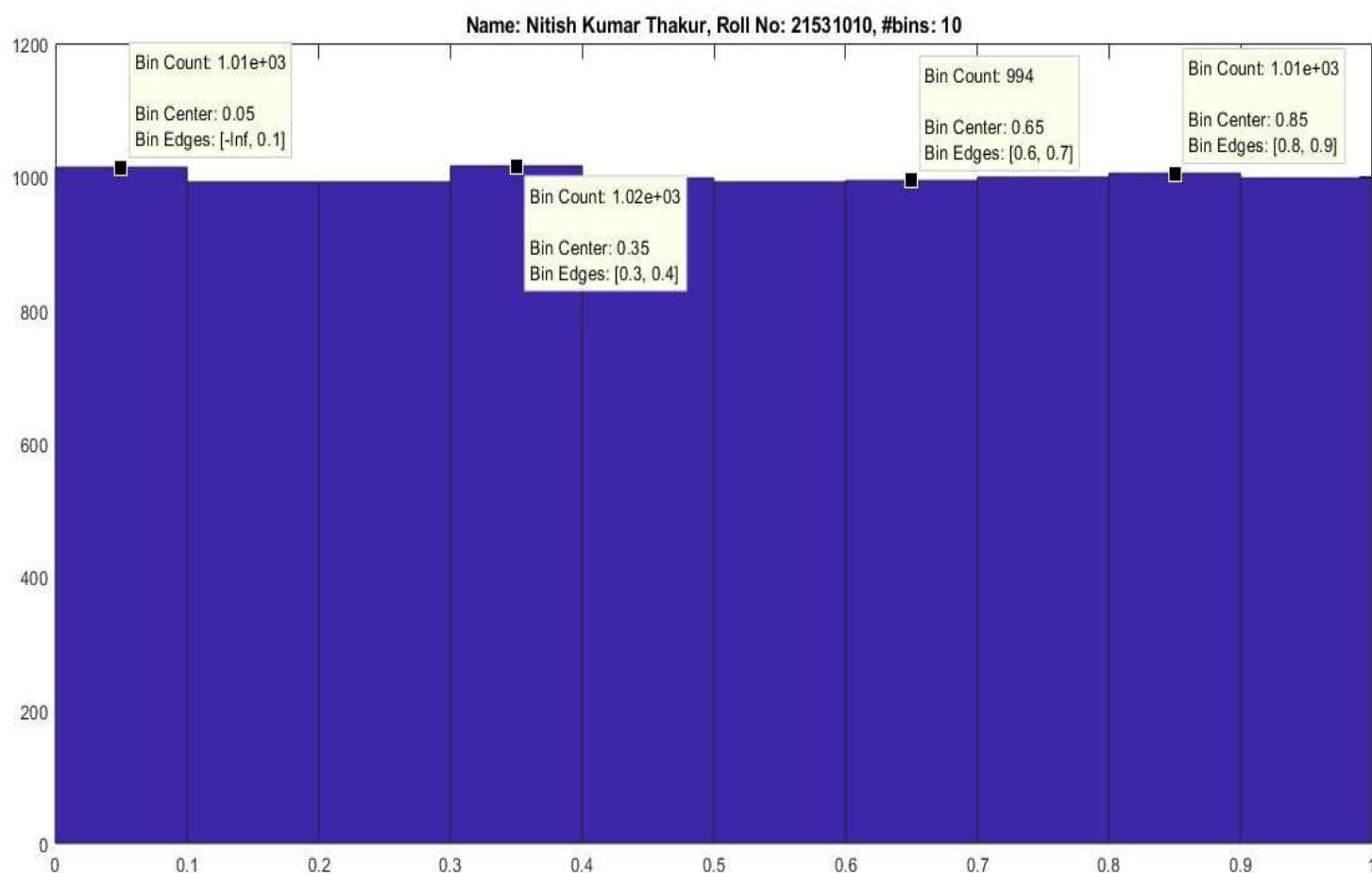
When we take number of sample equal to number of bin then we observe that bin-to-bin counts variation is high.in some interval like 0.402-0.412 total bin count is zero but for interval 0.696-0.701 total bin count is 5 which is very high compare to other interval.

Number of samples = 10000
Number of bins=10

Name: Nitish Kumar Thakur, Roll No: 21531010, #bins: 10

Bin Count: 1.01e+03
Bin Center: 0.05
Bin Edges: [-Inf, 0.1]

Bin Count: 1.02e+03
Bin Center: 0.35
Bin Edges: [0.3, 0.4]

Bin Count: 994
Bin Center: 0.65
Bin Edges: [0.6, 0.7]

Bin Count: 1.01e+03
Bin Center: 0.85
Bin Edges: [0.8, 0.9]

But when we take Number of sample is very high in compare to
Number of Bin,then we observe that bin-to-bin counts variation is
low.see above figure in all interval **almost** number of bin is equal.