STAT S 670 – Exploratory Data Analysis – Homework #2

Ganesh Nagarajan

gnagaraj@indiana.edu

Solutions

1. A) By the law of large numbers, as n →∞, the distribution becomes normal. Hence by central value theorem, the asymptotic distribution X, Xn → X, N(0,σ2)
2. B) By the law of large numbers, as n →∞, the distribution becomes normal. In normal distribution, mean=median, Hence the question can be remodeled as the question No 1 A), hence the asymptotic distribution is same, X, Xn → X, N(0,σ2)