# Population and Sample

E.g.

TV reporting Lalitpur election.

Whole Lalitpur people is population if this data. Three group 123 are samples.

Here

Population – N

Sample – n

Sampling Techniques

1 Simple random sampling – Every member of the population (N) has an equal chance of being selected for your sample(n).

2 Stratified Sampling – Where the population (N) is split into non-overlapping groups (Strata).

Eg

Gender = Male Female

Age Group – 0-10; 10-20; 20-40; 40-100.

Professional - Dot net; PhP; Python (Professionals can’t be stratified on bases of programming skill. This example wrong for stratified sampling.

Rather professional can be stratified by Doctors, Engineers, Teachers.

3 Systematic sampling.

N = Nth individual observation.

E.g., Observation of every 5th people in shopping mall for Covid 19.

1,2,3,4,5,6,7,8,9,10,11,12,13

4 Convenience Sampling

Domain experts participate in the survey.

Data Science related survey – Data Experts or Data scientist (Only this two-domain expert group can participate in this survey.

Data expert - Domain expert group

Data Scientist - Another domain expert group.