

# Research Design

## Single-Factor Experiments

Single factor experiment are those experiments in which only a sigle factor varies while all other are kept constant

Type of Signle-Factor Experiments

- \* CRD\
- \* RCBD\
- \* LSD

### Completely Random Design

- \* We divide the the Goats into two groups and then apply experiment food1 and food2
- \* Then Data scientist do analysis

### Randomized Completed Block Design

Steps Make the blocks\ Repeate the same thing from CRD\

- Example. \
- a) take goats make and female goats.\
- b) Now divide them into male male and female female and provide food1 and food2 and compare it.

## Latin Square Design

Take units of sample eg goat and then apply food in matrix for

- 3x3
- 4x4
- 5x5\ The food will not be repeated.\ This is usefull when you have less resources.

## Multi Factor Design

They are used in experiment where the effect of more than one factor to be determined.