

# Statistics

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Statistics : Statistics is the Science of collection , organizing , Summarizing and Analysing of Data.

Data : Data is facts or pieces of Information.

Eg: Ages of student in classroom  
 $\{24, 25, 28, 23, 22, 30\}$

By Above Information we can Analyse the data , we can also know :

Mean , Median , Mode.

Standard Deviation .

## Types of statistics

1. Descriptive statistics
2. Inferential statistics

Descriptive Statistics: consists of organizing and summarising the data.

Eg: using all the graphs like piechart histogram, Bar chart.

By this we can see the data in super visualization way.

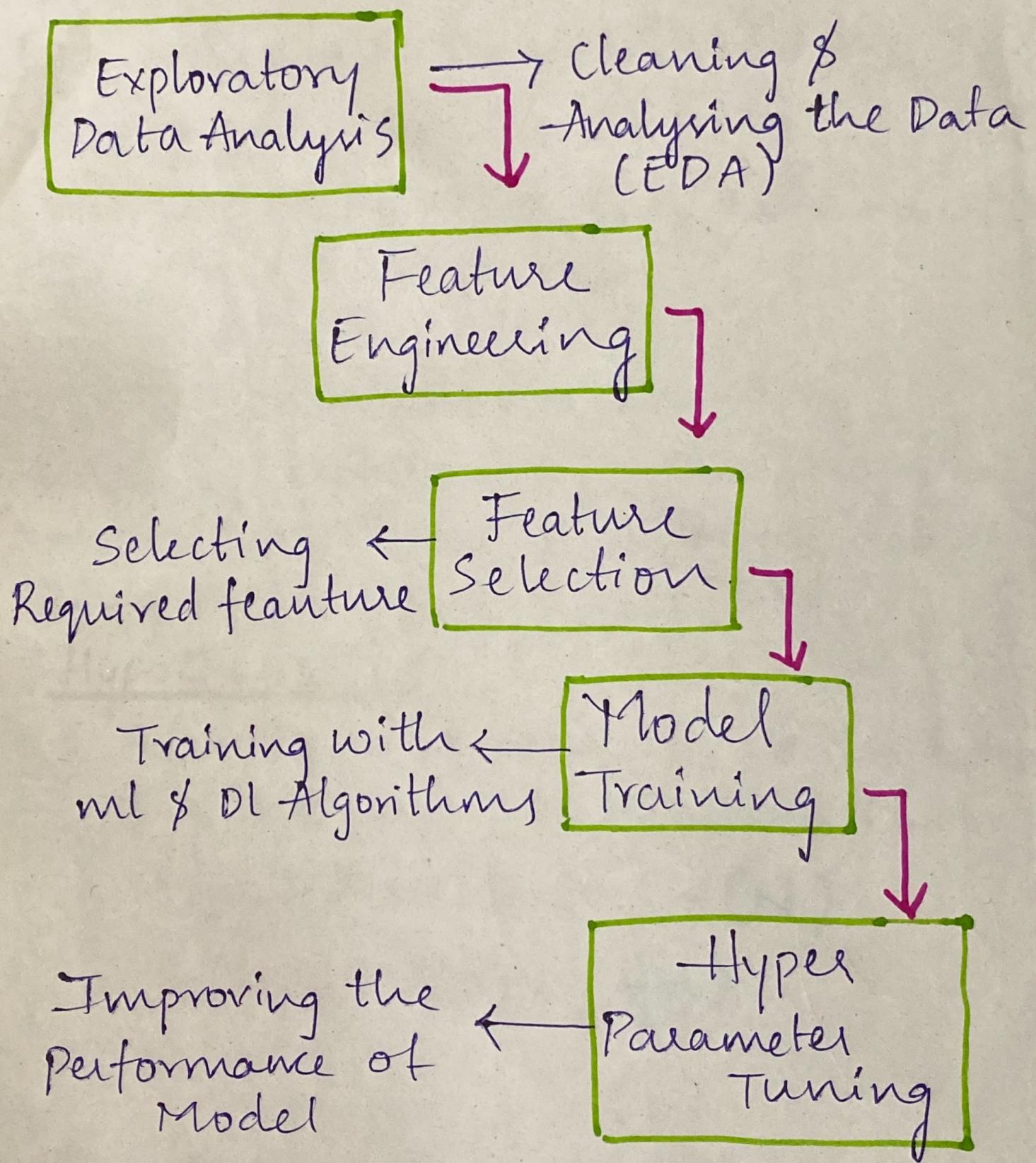
Inferential statistics: consists of collecting sample data and making "conclusions" about population Data using some experiments like "Hypothesis Testing".

Eg: By using Sample data we can take Decisions in population Data.

Population Data =  $(N)$

Sample Data =  $(n)$

# Life Cycle Of D.S Project



\* Statistics will be used in all the above steps.