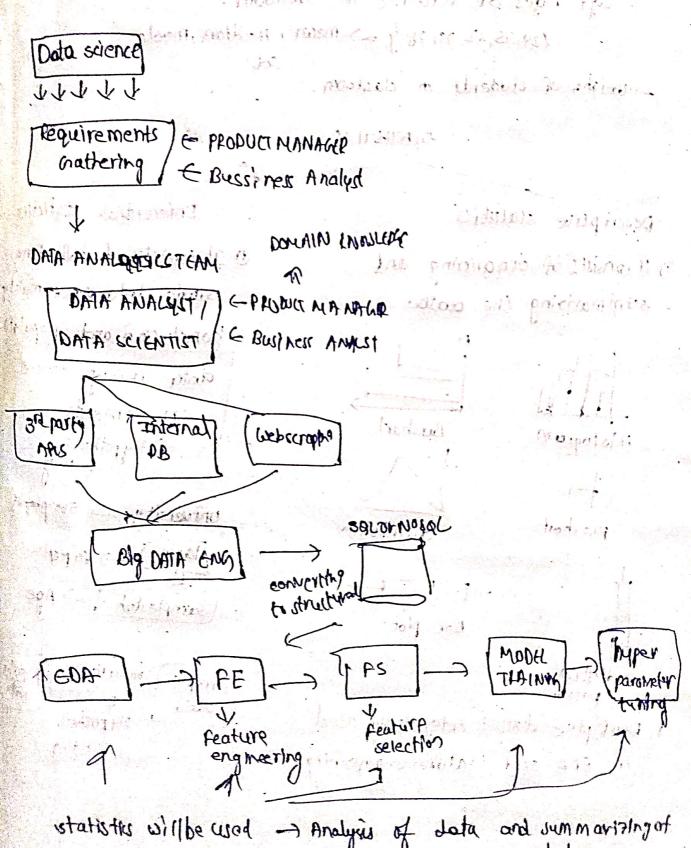
STATISTICS

- , find the aug size of shark throughout the world?
- * Amazon Big Billion day sale best date; which month should you select?

LIFE CYCLE OF DATA SCHWICE PROJECT

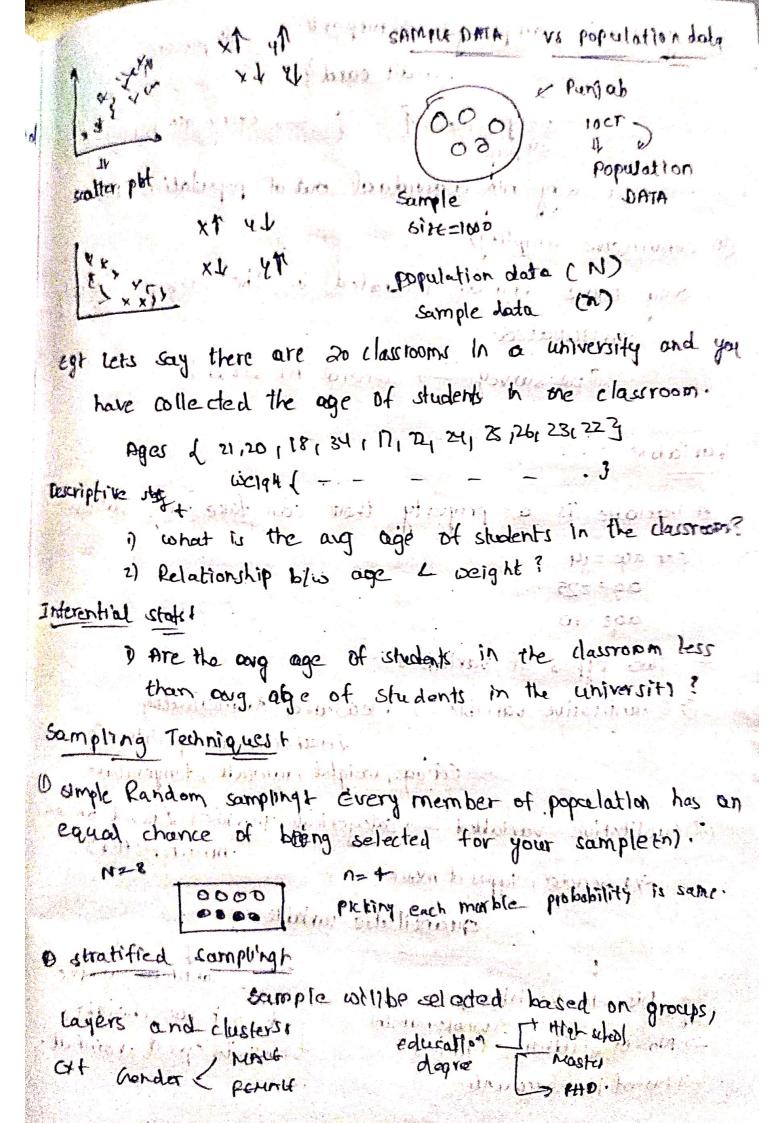


data.

STATISTICS - V statistics is the icience of collecting, organizing analyzing the data. put nolling For as 83% Datah - facts or pieces of information. Egt Ages of students in classición. (24,75,324 21,26 } => mean, median, mode Sd - weight of students in classroom E HUDIN MANAGED ITSIFATE Descriptive statistics Interential statistics. SWAM COURSE O it words of organizing and O It consists of collecting summarizing the data. when making data and making latin some conclusion and population data using some Barchart. H1stogram expertments tecting. pic chait distribution University. _ 500 people flored) -> to kelp [sampledat] => Age. BOX plot. cordlestich. patter Sample Grebuston, Topulation * Descriptive stats is extensively, used ptob in EDA and feature engineering Hyrotton

and the state of t

Tosting.



nouses the strain of the strain of the strains duran finedit and for every at & sery all person. - select every nix individual out of population (NI) @ countinence samplings only those who are interacted in the survey will only the participated.

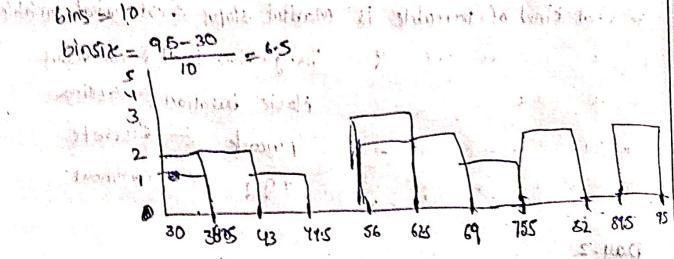
- of the survey -> General At sarrie 3! enal Larger Version of the manner of the party of the par A variable is a property that can take any values. age=25 depine on the cold oficialists as age=10 -> two types of variables: to spe pro oil sin i interential states O quantifative variable > measured Numerically I mathematical operation } Extage, weight, rainfall, temperature @qualifortive variables - categorical variables Lased on one ext hender 1 Types of movies. charactericticity quantitatle variable. Discrete variable of No-of children Jumber of Minibal Otchosext age theight -) No of land account. Willimital speed , rainfall.

x what kind of variable is Marital status & Calegorical writile thing ariver length & continued Movie Ouration E. 16 Minas pincode (Discrete E Continous. 191 Histograms Measure of CT MEASURE OF DISPERSION PERCENTILES & OWARTILES 5 NUMBER SUMMARY (BOX PLOT) Histogram + Agest = (0,12,14,18,124,26,30,35,31,37,40,4,42),50,5,56 16, 90 95, 100} steps to create histogramh Militar 1) sort the numbers Number of Binste @ Blus -> namper of groups birdie (3) Bin size -> stree of Bins. suppose we wan to blirgit then Number of gray-to enthole me count so PIR they Pluite = probability distribution property Andrew Luis 4 0 30 40 50 60 70 60 % /w

20

10

Weight = 230,35,35, 42,46,50,50,62,62,63,63,73,80,000



Discrete Bank accounts

No. of Banks = [213,5,1,4,5,3,7,8,3,2,4,5] MORSONIE TO Coprobability must furctions por

-> Polf for continous variable -1 pmp for discrete variable.

sampling

ol) cluster sampling

phylole population intoclustes and ra ndomly selecting dusting then sam c) snowball sampling pling all the members in the clusters

probability sampling won probability sampling.

two feet it stages estable

- a) simple random sampling selecting individual to re a) cominience sampling b) systematic sampling who are easy to reed
 - select individual bard on researchers studgena,
 - Exte fing steady safflist recruit future subjects

among three aquantaces o multi-stage sampliq. @ Quota samplings will be combining multiple sampling method. Involves scledky Age ; Group , Gender, carla, clusters and randomly in tot in wishered : samplin's " and the explanations." - selecting sampling depending on usecoses ordinal Nominal = Categorical said I No Rank Lata W? GITMIF -> Goda can assign Blood aroup cross 'Bad better phrodi ext customer -) categorical values feedback in si scales of measurement + I scales of measurement describe the nature of information within the values assigned to variable in with 4 primary scales of measurement i) Nominal side Thomas 2) ordinal side 3) Interval a) Ratio. this scale classifies data into distinct categories, that do not have an intrinsic order. i) Data is categorized based on names, labels, or qualities ii) categories are mutually eaclusive. 111) No logical order among categorio

and in the standard ordinal scaler

This scale classifies data into categories that can be ranked or ordered. Printing + 12 leaten ?

Allyon Giralian.

characteristics.

1) Data is categorized and ranked in specific order

in the interval between ranks are not necessarily equal

ext costomer feedback satisfied very satisfied satisfied

Interval scalet

The Interval scale not only categorizes and orders but ab specify the exact difference between Intervals It lades a true sero point. scales de menimeismiter

characteristro

- 1) para is ordered with consistent intervel between values
- 2) Allow for meaningful comparsion of values.
- 3) No true zero point.

ext Temp in fahrenheit calendar years:
10° 7: 20° 7: 30° A
2024 7616, 7020

Ratio scale +

the order matters, the differences are measurable. contains a zero starting point:

the grant of the same of the s

assean menth

o length of different rivers in world -) Interval scale.

6) favorik, food, based on hender! -> ordinal scale.

(a) Marital Status? -> Nominal scale.
(b) Marital Status? -> Nominal scale.
(c) ID, measurement -> Interval scale.