

A.P. SHAH INSTITUTE OF TECHNOLOGY

Engineering



The service of the service	Department of Computer Science and Data Science

Semester: VL Subject : DAV Academic Year: 2023- 2024

In descriptive analysis, we are describing our data with the help of excel files, graphs, tables et and present it in a meaningful way so that it can be easily it is performed on understood. Most of the times small dalasets and this analysis help us a tot to predict some future trends based on the current findings. Some measures that are used to describe a dala set pare

measures of central tendancy.

* measures of variability.

Measures of Central Tendancy: * It represents the whole set of dala by a single value.

* It gives us the location of central points

* There are 3 main measures of central tendancy

(i) Mean (ii) Median (iii) Mode.

Examples: Let us consider BOD dateset in R.

This will display the dataset BOD. This datased has 2

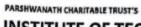
Coloumn Time and demand. with I rows.

my Dala = BOD # designe BOD dalaret to variable my Dala

mean = mean (my Dala Sclemand)

This will calculate the mean of demand colourn of my Dala dataset and store if in variable mean. The print () method will display the calculated mean.

Subject Incharge: Prof. Sarala Mary Page No. Department of CSE-Data Science | APSIT





A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering **Data Science**



Semester : VI	Subject :	DAV	Ac	ademic Year: 20 28 2024
median = median (my	y Dalat de	mand)		
ponti (median)			N 14	Antown
This method will dis	play the	median a	the a	manal colocution.
Measures of variabili	Plg:-	38 000	11.	at the trans
Measure of variability	y is kn	own as th	u spread	of dala or
howwell is our da	là is a	les tributes	I. The or	rost
Common variability				The second second
(i) Range (ii) Van	Pance Ci	(i) Standa	rd Device	i o n .
max = max (my Dala &	demand	1.00		e y region
print(max)	12		7 -11 -12 -1	vij streke,
min = min (my Dalas de	emand)			
מיותו לחוויו)	fred south	4 1 70	0/4.0	e e u et la litte
range = max-min.	nos los	No. 18 .7		
print (range).	212	1. 1.30	مدر دال	ลงเรื่องเคอ
The maxis and mis	meth	our enspu	egs the m	Z
and minimum valu	in of 9	emand cold	ownii. (he range
calculated by finding	ng the	difference	belween	max and
the mix.	a Literary			
vanance = var (my Dali print (vanance)	Ademan	4)		
print (variance)	1 1	Paris 1		worth many
sd = sd (Do my Dala \$ a	demand)	who care	andre en	
The warry method w	sill calcu	lale the	valland	ou manes
oloumn. The sole me	ethod car	loulates +	he stand	and deviation





A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science



Semester: VI Subject: DAV	Academic Year: 20 23 20 24
quartiles = quantile (BODS demand)	
The quantile () method eakulates and di	esplays the
0%, 25%, 50%, 75%, 100%	es of the demand
coloumn in my Dala dalaset.	
IOR = IOR (BOD\$ demand)	
h. P. L (TOR)	401 0 0 -4
The IORC) method displays the Inter Quar	rattle Kangl of
demand coloumn.	
. ()	I II eumman
The summary method calculates and dist	slay the summer.
The summary method calculates and dispersion of the demand colourn. The output is	disprayed mile
following way:	
following way: 1400. Median Mean 3rdout	Max.
8.30 11.62 15.80 14.83 18.25	14.80
It calculates and gives the above value	ue.
Decruptive Analysis displays the starts	Ha of "
dalacet Statistics is all about drawing	conclusions
from dale.	