PARSHWANATH CHARITABLE TRUST'S.



A.P. SHAH INSTITUTE OF TECHNOLOGY

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



Semester : ___VI

Subject : ___ DAY

Academic Year: 2023- 2024

Exploratory Dala Analysis (EDA):

Emploratory Data Analysis CEDA) is an analysis approach that identifies general patterns in the data. These patterns include outliers and the features of the data that might be unexpeded. EDA is an important first step in any dalā analysis.

The following step-by-step examples shows how to use functions to perform explorations data analysis on slarwars dalaset that comes built-in with the

tidy verse packages.

Example:library (tidy verse)

The dalacs is used to load the starwars dalaset.

8 8 amoar 8

? is used to know the about the starwars dataset.

dim (slarwars)

The dimer shows the dimensions of starward dataset. It displays the number of nows and coloumns in

the dalaset

glimpse (starwars) The glimpse() gives the entire glimpse of the dalaset. It includes No. of xows and no. of coloumns, coloumn names,

datatype of each coloumn and the value of each

coloumn.

head (slarwars) Il displays the first few nows of slawars dalaset

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Semester: VI Subject : ______DA-V Academic Year: 2023-20 24 tail(starway): It displays the last few rows of the starwars. Slarways & name It displays all the values of the name coloumn. names (Plarwars) The names () displays only the coloumn names of the dataset length (Blazwars) The length () methods shows the lotal count of the Coloumn names. class (hair-color) The classe) method displays the dataly pe of the coloumn hair-color. unique (hai'r-color) If anyone wants to know the unique values of heir-color coloumn, then unique() method displays it. sort (Table Chair-color), decreasing = TRUE) The table () method will count the uneque occurrence of the values in the dalaset. The count is displayed. The sort () method will sort those values in descending

This can be also written as:

slamours %>%
select (hair-color) %>%
count (hair-color) %>%
arrange (desc(n))

order.



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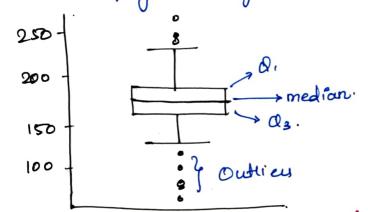
Subject : DAV

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The datas are also visualized using Graph in EDA:

bonplot (slarwars & height).

display the height coloumn as boxplot. This will



barplot (sort (table (hair color), decreasing = TRUE).
This will plot the barplot with the count of unique

hair colors in decreasing order.

