DA-I

a-1 State and explain different types of Data Analytics.

Ans - There are four types of Analytics

- 1) Descriptive
- 2) Diagnostic
- a) bredictive
- Descriptive Analytics
 It provides a defiction or "sumary view" of figures
 in an understandable format. His towards

 frefaring data for further analysis (i.e. data preferetor)
 eg late visualisation through hime flots, graphs,
 fie-charts.
- -> liagnostic Analytics Digs deeper into an issue so that they can arrive at
 the source of a problem tools both descriptive and
 diagnostic analytics go farallel.

 ly- late discovery, correlation
- -> Predictive AnalyticsEssecasts trends based on the current fredicts the
 frobability of an event haffening in future on
 estimating the accurate time will haffen. Uses
 model constructed fast data to fredict the future
 on as impact of one variable.

 ly-linear regression

æ-2 my -# # Eg - Oftimization algorithms (lython), decision analysis # outcome. Crescriptione Ana Weite Indicate \$ 1 1 Pensex ander of teams broads quality improvement, service have ment, east seduction, fooductivity increment 5 n 4 Eunctions for relevations 1+2)*4 225 10.5 - bives the Equare root 1+2 * 4 brithema 1/2 *3 Addition, 4 * 2 Sept (225) -> bives the 4/2 4 1/2 4+2 round (3,14102, 2) (rives 3.14 sounded abs (-15) -> brives 4-2 syntax for various mathematical oferations? oferation bteaction, multiflication and division course of action. In other the absolute value to make to oftimize the squase soot words R R 7

0-3 For data eleaning suffers mean (singuality & organe) brive R' New of & Solar R = if else (is no (New of & Solar R))
median (New of & Solar R) new- if & Oyone = 'ain quality'. manipulation data = airqualit Summary (New of) example for various data cleaning and ifalse (isna (New of \$0zona), median (New of \$0zona, na: rm = TRUE), New of sozone) me hamedata pos New of & Solar . K) nasm=TRUE) na.acm = TRUE), = TRUE)

Adding enfty column dt [[" fol " "]] <- 0 updating value of column added frint (" rodified bata frame") + dt [(" sol 2"]] of \$" Get 5" = NA tenaming very prame "=" one"; sename (of , { ("Low }" = " bloce")) Creating a late teams For data manifulation Here we will first exects a data frame and rename it data.faame (sone 1 = 0:2, how 2 = 3:5, now 3 = 6:8) I ("original.data faame") I (4) I ("prodified data faame") data frame the data fram colu

Stage 1: stage 2: Stage 3: Aus-2-5 Objective: life ezcles Explain a cox study an healthy case for data analytics Understanding the data: We need the data of the hospital database we need to frovide modicines to the fatients of courses. let us take an example of life eyele of data anelytics for health each, with the objective of providing sequised medicines for fatients of 'Concer' imputo namally

data & marks ([is. na (data & marks])] = mean (data & marks) Write the 'R' sode for data imputation We will remove all the lata cleaning & data transformation: data = data frame (mashel = c (NA, 27, NA, 49, 75), mashes 2 = c (81, 14,NA, 61, 12), loctor details in this case. to analyse the number of fatients of sancer sereate a dataprame For imputation: mask83= ((78.5,19.325,NA,28,48,0) suiversary dota such as na. Am = I

Stage 1: Stage 6: Ans-8-6 Now at the Data late Enhancement These are many local recencement for somefore of easily, no Baskin Rolling' postores high. beeing the number of fatients and demands of medice, we can feedict the amount of medicine sequ The number of fatients of causes will indicate much medicine will be required that means a bescripting Analytics. These are many local rice- recompositions lata Visualization: assentate a value to data. liagnostic Analytics: It is because of the obvious Next year also, pron predictive Analytics: bredictions using graphs in usile like summer demand of see-evea ofened in It has tive Analytics: been observed end we can visualize the data ease study for business near UIT deving that matlalo Realons Lee- eseam data analytica? Let Share is addin