Lifetycle of Data Science Project (3 months - 1 year) Livague

Problem Statement >> Business Understanding >> Data Collection >> Basic data

Who What where When why How Ask
Right
Questions

EDA

Deployment
Evaluations
Modelling
Preprocessing

X L

Azure

PE ST

Aws -> 750 hours free

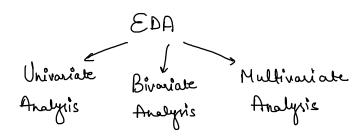
Starting Project

-> Import libraries & load the data

→ Heroky - Students

- → Basic Info about data → df.info() ______nulls & non-nulls metadata Rows columns datalypes
- → Basic des vriftion of the data > df. describe()
- → Basic data Study -> unique, nunique & value-counts()

-> Baic Data Preparation -> data quality check / data accemment



Univariate \Rightarrow histogram, count plot, boxplot, kde plot
Biroriate \Rightarrow line, Implot, scatter, box, pie
Multivariate \Rightarrow "hue", heatmap, pairplot

UNIVARIATE -> BLUARIATE -> MULTIVARIATE (Project EDA flow)

$$\frac{\text{Outlier}}{\text{Z-score}} \xrightarrow{\text{Borplot}}$$

$$Z = \frac{x-u}{r}$$

$$UL = Q3 + 1.5 IQR$$

$$-3 > Z & Z > 3$$

$$LL = Q1 - 1.5 IQR$$

Encoding > OHE (Nominal), Ordinal Encoding, Label Encoding

Cone hat encoding) (9/p variables) (DIP variables)

pd. get-dummies

modinal category ordinal category

Grade Encoding

No 0/P O/Pis classes Op is Continous variable (labely)

woitaulor3 (=

Kegression

Error based Pilness based - MAE, MSE, MAPE, RMSE - PL - Adj R2 Classification

Classification

Accuracy Precision Recall Fiscore Roc Auc Clustering Silhouette's Score = b-a
max(b,a) [-1, 1] JNDO - PAK Relations Monisha Bharath Tantya → Better foreign relations → ffealth care system °s better in India -> grada - Handu Majority of grava Pak - Mudin Myorty → Better Education in - GDP is better -> Bigger land orea of (gndua) gndia gndia. PROJECT AIR TICKET PRICE PREDICTION

