	Date Date
	Feature Engineering and Solcition.
0	After ESA (Analysis & Vitualization) of duta we more to next step feature engineering.
	11 1 I way didn't do your under
	of data well) you can't select it's good features to make to good AI/ML models.
	then features -> min & max speed.
	In ML feekines are things that can tip your decisions, and that of your model.
	and that of your model.
(7)	Model - An algo trained to take In input and give out prediction output.
	Continue of Marie 19 Ar
	fectures Model Prediction. (of car) (bujing car yes (or) no).
	yes (or) no).
3	features engineering - Act of converting new observations and derived features.
	features Skales -> Prediction directly on (one variable) (buying car only depends on price) only feature from how (or more variables.) different kind of last
	feature from two (or more ranables.
	different kind of feature eng in applied for diff dolarypes
	(numerical date time, categorical).

	[Page No.]
	Nanables Discoete.
-(4)	Variables Siscoete.
<u>O</u>	Scalegorical Nominel Date/time.
	Date/time.
T	Coating features from numerical columns.
	a) Using raw features as is.
	b) binning
	c) Binarization (creating a jeasure for OEI)
	d) log toansformation.
6	for a language of the To
6	for categorical variables. I cannot be directly used, a) label Encoding can't be used]
F	a) label Encoding con't be used]
	5) One hot encoding
	e) Target Encoding
	Giving numerial value/labeling ategorical deta [Eg: - Male > 1]
	But this might lead to bias, that when one hot encoding by used.
9	Mined variable (Neum & Case) dataset un also de present.
(8)	Mandling outliess.
	Outlier detection with Standard deviation.
	Either drop outlier (or) cap outliers.

and the second	Page Nc.
	Mormolization. Atomolization. J. Scaling of date in distance based also Standard Scalar. J. Standard Scalar.
	() feature Scolling. X_test Y_test.
	Standardization in Normalisation
	feature Selection.
	filter weapper Embedded method method.
([Similar to data processing] (+akes long time) (L1, L2, tree) or elation very high i.e columns similar than drop. Constant Clerking courters (4 to 1)
	Cluari constant y to be doopped q duplicate whems
	delay estumn escate - clear dete - when project bill. delivered.
	where clear bill = null -> jest set.
	Linear regenium Hitmapleor Legginers.

Logical Control of the Control of th
Preparation for Ouiz (Preprocessing, EDA and feature Engineering)
(i) Preprocess of deta
Constant Collumn/features removed -> hunique ().
Occasi content removed -> Variance threshold
1).2 Target Variable -> Variable for which you want to get a deeper underhanding of.
-> Depends on your business & goal. -> Very somp in our of supervised learning.
(1)3 » Removing duplicate columns -> If same kind of quature again = E again , the model might get biared.
for smell drop duplicates in pandas after dataset. Transpose.
bez of recursion stack will be full. Seperate fune to be written.
D. G. a Date / Time in dataset
3 Special type of categorical variable. Gives lot of data.
Semester, week(0) week(0) week(0)
day of the week.
data[Date of Birth'] = pd - to-dateline (data [Date of Birth']
then derive Conclusions.
table name? table of Bith']. dt. month.
difference & (daletime. deletime. today() - date[Dos']). heed ().

1.5 Milong Values 3 dela mechanism for misning s randoms. (MAR) Es systematic Loss of data (MATA) so can proceed with admost rendom also if we can manage ? no Not at random are containing relevant into, will creat data ? smull Omean() for finding null percentage data . is mull (). sum() for finding null percentage. Figenerally groupby & np. where () is used in this process. MARS Typore, won't make a diff. is data [data. columnmens. Fondto data. emp-title. unique()[0:20] (1.9 Meen & Medlan Imputation. s ruceus replecing the data with which is missing