index



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S.No.	Date	Title	Page No.	Teacher's Sign / Remarks
١.	2.8.25	Load & Convert dataset		
		into databrano		
2.	2.8.25	Data discovery of proporation		M
		tie	10	10
3.	5.8.25	Customer segmentation		
4.	\$ 8.25	Test proprocessing		
, -	9.0.17	1000		
5.	9.9.25	NLP Task & Info Roterewal	10	
				lille.
6.	9.9.25	EDA with python		
7.	16.9.25	Clustering	7 7	A
	1)	Interactive Dishboard with Talebau		
8.	4.6.25	miration survival to the last		
	-			

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Seec . O

ABS : 177

sibsp: 0

parch: 0

Duplicate removed: 56.

EXP. NO:1 Look the titaric dataset and convert it into pataframe AIM: To perform basic perogram and exploring data inalysis. PROGRAM CODE : import munity as no import mathlotlile, pupilot as plt import sealeon as ens forom sbleam perperocessing import Loleler code, standard tit = sns. load - dataset ('titarie') (1) book tit) tring tit. isrull (). sum () tit [age] = tit ['age]. fill na [method. fill na (method = bull' tit [deck] = tit [deck]. cat . odd . categorical ['unbrown']) miss - = tit [tit ['deck']. usina ()]. under [:5] dit - loc [miss - , 'deck'] - unknown le - laleel Encodec () stit [' Sex_ encoded '] = le - fit - teronsferom. (ditanie ['Ser']) Scaler = Standard Scaler () tit ['flase - sealed '] = Scaler . fit - transform (tit [fore 1])

Correlation Heatman

plan 1.00 -0.29 0.10 0.03 -0.55

age 0.29 1.00 -0.21 -0.17 0.08

slow 0.10 -0.21 1.00 0.41 0.15

parch 0.03 -0.17 0.41 1.00 0.21

fore -0.55 0.8 0.15 0.2 1.00

polars age Sibsp Parch fore

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Sns. pairplat (tit, Nors = [' pilass'; bex nobl rage (; 'sibeh']) Alt. suptible (pairplot of selected feature) vor- features = ['hclass', 'oge', 'Sibsp' 'pair', 'false'] corr = tit [cor - features]. corr () plt. figure (bigsize = (8, 6)) ins. heatmap (corr. annot = Town , comp = cool tent = ',2f') plt title (correlation Heatman) hour show () Thus, the data perocessing and cleaning using titaric dataset has been executed successfully.