or reduced Feature dimensions

Assignment No.

Q1)

output .

classmate

compare and contrast supervised and

	sed learning appr	Dadles
	prisoports with	oaches.
ASpect	Supervised	Uncurried
doille	learning	Unsuperised
		reaming
perinition	machine learning	machine lear.
phos trids to	approach that icoi	toning annual
.26bem -	labeled data to	that uses
		Unlabeled
Wibot bootlom	in test split sised	
: 27	aset into two por	lotify patterns
		Structured
them aft mint	of bozu to toe pain	iorT
		Requires only
en date.	with both feature	
	and target label	no target
	919mpx3	abels.
aim transing	Sklern madel solds	morg
	1 PUIN TO MAPPING	0.000
Goal	From inputsto	Smuctures, pott-
M= +19+	a touts tomake	ems, patterns
50= 9512 - 469	autputs tomake	or groupings
-SP	preording	within data
	unseen data	
		- claire
Te chniques	Classification,	pimensionali
Jing	Regression	reduction
110 - 0 1	11196.142	requestion
Bamas motton		
Pilips of MA	predicted labelson	Groups, aus
output 1	preoxical valuel	or reduced

numerical valuel

I cam to split data

x = features y = labour

sets

bao.	example Applications	email Spam filtering predicting house	market basket		
		prices, diagnosing	anaysis,		
	7	diseases.	image comp-		
10		teaming	ression.		
2.25	lanca proin	mathine leave	exalticata a a		
a popular	State and explain Train Test Split code				
weir d	used to	build classifier	models		
10000	State UT	and explain	1/10003.		
biot	State and explain Train test split is a method todivide				
Office	dataset into two pasts:				
borot	The fab pasts.				
	Training	set -> used to	rain the model.		
ing bail	Test set	-> used to eva	lunte the modey		
(X)	performance on unseen data.				
Ja pra-	tad u	and target take			
· Medd.	code exa	mple			
	From Skle	om. model - selection	import train telt		
abd Toy	20114	1 ELL DI TO MAPPING			
1911	X_ train	x test , y mais	n . y test -train		
cotten.	1000 testa	split (x, y, te	ut size - 0.2		
wiav o	p va	random state = 4	2		
ook al	Line	app agazno			
	Explanati	on			
points.	code part	Classification,	meaning		
		Regregiery .	Treoming		
(30 mp)	train_test_	Split for	action from scikit		
		100			

test_ size = 6.2

20% bata for testing, 80 1. for training

random State = 42

ensures reproductive Spiit every run.

x - train, x test. x- rain, y-test

variables storing troining and test.

use in classifier modeu 17 Split the data using train_test_sprit

2) Train the model with X-train and y tain

3) Test the model with X test and y test to check accuracy.