Mid Semester Examination

2023

Name of the program: MCA

Semester: 2

Name of the course: Machine Learning with Python

Course Code: TMC-205

Time: 1-1/2 Hour

Maximum Marks: 50

Note:

i. Answer all the questions by choosing any one of the subquestions.

ii. Each question carries 10 marks.

. /	Define the Machin	e Learning concept v	vith a list of any five real-life	
	using min-max nor	Machine Learning. I malization technique	with a list of any five real-life Normalize the following data : x=[7,12,15,23]	COI
2.				
(b)	The following ground	nod fin	bution gives the annual wages	+
9	of 200 employees	ped frequency distri	bution gives the annual wages	CO1
1 2	mode, Standard De annual wages.	viation, Co-Variance	bution gives the annual wages rm. Calculate mean, median, c. Correlation Co-Efficient of	
	Wages Rs.	Number of employees		
	5000 and less than 5500	4		
	0000 and less than 6000	26		
	6000 and less than 6500	133		
	6500 and less than 7000 7000 and less than 7500	35		la .
o calcu	late the 7	2		1
03	iste the 2-test and t-	Test score to evaluate	the type of dataset given.	
- V2.				
AB			ar dataset given.	
) AB	features related and	whether a customer car	10 marks	000
two balar I and suite	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can emonthly salary of the based on two features value of 0 and 1. Which	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best	CO2
two balar l and suited	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can monthly salary of the	n be given a loan based on the customer and their account where inputs range from 0 and regression model is best	CO2
two balar 1 and suited	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can emonthly salary of the based on two features value of 0 and 1. Which	10 marks to be given a loan based on the customer and their account where inputs range from 0 and regression model is best	CQ2
two balar 1 and suited X1	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can monthly salary of the passed on two features without of 0 and 1. Which X2	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best Y 0	CO2
two balar 1 and suited X1.	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can monthly salary of the passed on two features without of 0 and 1. Which the work was a control of 0 and 1.	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best Y 0 1	CQ2
two balar 1 and suited X1	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can be monthly salary of the passed on two features without of 0 and 1. Which was a control of 0 and 1.	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best Y 0	CO2
two balar 1 and suited X1.	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can monthly salary of the passed on two features without of 0 and 1. Which the work was a control of 0 and 1.	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best Y 0 1	CO2
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two balar 1 and suited X1.	sank wants to decide of features related to the nice. So the model is but also has binary oud here.	whether a customer can be monthly salary of the passed on two features without of 0 and 1. Which was a control of 0 and 1.	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best Y 0 1 0 1	CO2
two balar 1 and suited XI 0 0 0 1	sank wants to decide features related to the nee. So the model is be also has binary oud here.	whether a customer can be monthly salary of the passed on two features without of 0 and 1. Which was a control of 0 and 1. Which was a control of 0 and 1.	10 marks n be given a loan based on the customer and their account where inputs range from 0 and regression model is best Y 0 1 0	CO2

x3 - month			
Let's assume the threshold value to be 25, ar than 25 then it will be raining, otherwise it's a	nd if the angles		
than 25 then it will be raining, otherwise it's a tuple with inputs (x1, x2, x3) as (0, 12, 11)	Sunny day Given	higher	
The mini inputs (X1, X2, X3) as (0, 12, 11	V TOTAL	a uala	
reedforward network (s. 1	J, initial weights	of the I	
tuple with inputs (x1, x2, x3) as (0, 12, 11 feedforward network (w1, w2, w3) as (0.1, 10).	l, initial weights (of the (1, 0,	
0).), initial weights (l, l) and biases as	of the (1, 0,	
Q5.	i, i) and blases as	(1, 0,	
0).	i, i) and blases as	(1, 0,	