

Daffodil International University

Faculty of Science & Information Technology Department of Computer Science & Engineering Mid Examination, Spring 2025

Course Code: CSE325, Course Title: Data Mining and Machine Learning

Level: 3 Term: 2 Batch: 62 Time: 01:30 Hrs

Marks: 25

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

1.	Predict wheth Attendance.	er a studen	it will Pass an e	exam based of	n Hours Studied and	[10]	CO2
	*	Example	Hours Studied	Attendance	Pass		
		1	High	Good .	Yes		
		2	High	Good	Yes	Oglik A.	
		3	High	Poor	Yes		
		4	High	Poor	No		
	THE THE STREET	5	Low	Good	Yes		
		6	Low	Good	No		
		7	Low	Poor	No		
		8	Low	Poor	No		
	(ii) For each at Calculate Computation (iii) Identify we get to should be checked.	ttribute (Hou ate the entro ate the weight which attributions as the final decision	root of the decisic	ttendance): py for the attri est information on tree.			
2.	patient images are known to identified 200 positive. Now	be positive case answer the	was tested on 800 for diabetic ref	images. Out of inopathy, (b) orrectly flagged inary classifica	abetic retinopathy from of these: (a) 250 images. The system correctly of 70 healthy images as ation problem.	[5]	COI

	Customer ID	Age	Annual Income (k)		Purchase?	Purchase?		
	1	25	40		Yes			
	2	30	50		Yes	Court Co		
	3	22 20 No						
	4	35	60		Yes			
	5	40	70		No			
	6	28	30	esco sis	No			
	7	32	55		Yes		- 1	3
	8	45	80	46.0	No			
major	fy the three nea ity vote. he following data					ed class by	[5]	
major	ity vote. he following data		th two feature			ed class by	[5]	
major	ity vote. he following data	iset wit	th two feature	es, X ₁ and		ed class by	[5]	
major	ity vote. he following data D:	iset wit	th two feature	es, X_1 and X_2		ed class by	[5]	
major	ity vote. he following data Di	iset wit	th two feature int X ₁	x ₂ 2.0		ed class by	[5]	
major	tity vote. the following data Diagram 1	iset wit	int X ₁ 1.0 1.5	X ₂ 2.0 1.8		ed class by	[5]	
major	tity vote. the following data Diagram 1 2 3	iset wit	int X ₁ 1.0 1.5 5.0	x ₂ 2.0 1.8 8.0		ed class by	[5]	
major	Diagram of the following data of the followi	iset wit	int X ₁ 1.0 1.5 5.0 8.0	2.0 1.8 8.0 8.0		ed class by	[5]	