

## $\begin{array}{l} \textbf{Dr. Ambedkar Institute of Technology, Bangalore} - 56 \\ \textbf{(An Autonomous Institution Affiliated to Visvesvaraya Technological University,} \end{array}$

Belgaum)

## EVEN Semester 2023-24

Subject Title: Artificial Intelligence and			Assignment – 2		2	Faculty in-charge:
Machine learning						Dr.Madhu B
	ode: 21CST603					
Semester:						
Section: A and B						
Q. No.	Questions					
1.	The following table gives a data set for deciding whether to play or cancel a ball					
	game, depending on the weather conditions.					
	Apply ID3 algorithm weather conditions.					
	Outlook	Temp (F)	Humidity (%)	Windy?	Class	
	sunny	75	70	true	Play	
	sunny	80	90	true	Don't I	Play
	sunny	85	85	false	Don't I	Play
	sunny	72	95	false	Don't I	Play
	sunny	69	70	false	Play	
	overcast	72	90	true	Play	
	overcast	83	78	false	Play	
	overcast	64	65	true	Play	
	overcast	81	75	false	Play	
	rain	71	80	true	Don't I	v
	rain	65	70	true	Don't I	Play
	rain	75	80	false	Play	
	rain	68	80	false	Play	
	rain	70	96	false	Play	
2.	Weight(x2		Class	1		
	51 62	167 182	Underweight Normal	1		
	69	176	Normal	1		
	64	173	Normal	4		
	65 56	172 174	Normal Underweight	1		
	58	169	Normal	1		
	57	173	Normal	-		
	55	170	Normal	7		
	For the above	dataset apply	KNN.If a pe	erson is ha	ving a v	weight of 63, identify which
	class he belongs to ?					
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Incharge HOD