

SCHOOL OF COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE			DEPARTMENT OF COMPUTER SCIENCE ENGINEERING	
Program Name: B. Tech		Assignment Type: Lab		Academic Year: 2025-26
Course Coordinator Name		Dr.Vairachilai Shenbagavel		
Instructor(s) Name		Srinivas Komakula		
Course Code	23CA201SE402	Course Title	Explainable AI (P)	
Year/Sem	III/V	Regulation	R24	
Date and Day of Assignment	21-08-2025	Time(s)	09:00AM -05:00PM	
Duration	2 Hours	Applicable to Batches	23CSBTB38	
Assignment Number: 02				
Q. No.	Question			Expected Time to complete
1	Assignment Problem 1: Customer Churn Prediction			
<p>Problem Statement:</p> <p>Churn dataset predicts leaving customers. LIME explains churn drivers.</p> <p>Tasks:</p> <ol style="list-style-type: none">1. Load dataset2. Train Logistic Regression3. Apply LIME4. Interpret churn factors <p>Deliverables:</p> <ul style="list-style-type: none">• Code• Outputs• Report				
2	Assignment Problem2: Retail Purchase Prediction			
<p>Problem Statement:</p> <p>Retail dataset predicts purchase. LIME highlights marketing features.</p> <p>Tasks:</p> <ol style="list-style-type: none">1. Load dataset2. Train Random Forest3. Apply LIME4. Interpret results <p>Deliverables:</p> <ul style="list-style-type: none">• Code• Outputs• Report				