

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	23CSBTB44	
Assignment Number: 03				
Q. No.	Question			Expected Time to complete
1	Assignment Problem 1: Crop Disease Prediction			
<p><b>Problem Statement:</b></p> <p>PlantVillage dataset classifies crop diseases. LIME Image explains visual regions.</p> <p><b>Tasks:</b></p> <ol style="list-style-type: none"><li>1. Load dataset</li><li>2. Train CNN</li><li>3. Apply LIME Image</li><li>4. Visualize</li></ol> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"><li>• Code</li><li>• Image outputs</li><li>• Report</li></ul>				
2	Accident Assignment Problem 2: Traffic Severity			
<p><b>Problem Statement:</b></p> <p>Accident dataset predicts severity. LIME shows contributing factors.</p> <p><b>Tasks:</b></p> <ol style="list-style-type: none"><li>1. Load dataset</li><li>2. Train Random Forest</li><li>3. Apply LIME</li><li>4. Visualize factors</li></ol> <p><b>Deliverables:</b></p> <ul style="list-style-type: none"><li>• Code</li><li>• Outputs</li><li>• Report</li></ul>				