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**	**23CSBTB33**
Assignment Number: 3			

Q. No.	Question	Expected Time to complete
1	**Problem 1: Titanic Assignment Survival Prediction**	

Problem Statement:

Titanic dataset predicts survival. LIME explains individual outcomes.

Tasks:

1. Load Titanic dataset
2. Train Gradient Boosting
3. Apply LIME
4. Visualize probabilities
5. Write analysis

Deliverables:

- Code
- Outputs
- Report 200 words

2	**Assignment Problem 2: Diabetes Prediction**	

Problem Statement:

Diabetes dataset predicts diabetic vs non-diabetic. LIME highlights medical risk factors.

Tasks:

1. Load Diabetes dataset
2. Train Logistic Regression
3. Explain with LIME
4. Visualize contributions
5. Interpret results

Deliverables:

- Code
- Outputs
- Medical interpretation