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**	**23CSBTB35**

Assignment Number: 03

1	**Assignment Problem 1: Bank Marketing Campaign**	

Problem Statement:

Bank dataset predicts deposit subscription. LIME shows why a client said yes/no.

Tasks:

1. Load dataset
2. Train Gradient Boosting
3. Explain with LIME
4. Visualize contributions
5. Discuss marketing insights

Deliverables:

- Code
- Outputs
- Report

2	**Assignment Problem 2: House Price Classification**	

Problem Statement:

California dataset classifies expensive vs cheap houses. LIME explains predictions.

Tasks:

1. Load dataset
2. Prepare binary target
3. Train Random Forest
4. Apply LIME
5. Interpret results

Deliverables:

- Code
- Outputs
- Report