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**	**23CSBTB45**

Assignment Number: 03

Q. No.	Question	Expected Time to complete
1	**Assignment Problem 1: Electricity Consumption Prediction**	

Problem Statement:

Electricity dataset predicts usage level. LIME explains contributing factors.

Tasks:

1. Load dataset
2. Train Gradient Boosting
3. Apply LIME
4. Visualize results

Deliverables:

- Code
- Outputs
- Report

2	**Assignment Problem 2: Insurance Claim Fraud Detection**	

Problem Statement:

Insurance dataset predicts fraud. LIME shows suspicious claim features.

Tasks:

1. Load dataset
2. Train Random Forest
3. Apply LIME
4. Interpret

Deliverables:

- Code
- Outputs
- Report