	COMPUTER SCI CIAL INTELLIG		DEPARTME	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	e Explainable AI	Explainable AI (P)			
Year/Sem	III/V	Regulation	R24	R24			
Date and Day of Assignment	21-08-2025	Time(s)	09:00AM -05:0	09:00AM -05:00PM			
Duration	2 Hours	Applicable t Batches	23CSBTB36				

Assignment Number:3

1	Assignment	Problem	1. Air	Quality	Prediction
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Problem Statement:

Air Quality dataset predicts safe/unsafe air. LIME explains which pollutants matter.

Tasks

- 1. Load dataset
- 2. Train model
- 3. Explain with LIME
- 4. Visualize contributions
- 5. Discuss health context

Deliverables:

- Code
- Outputs
- Report

2 Assignment Problem 2: MNIST Digit Classification

Problem Statement:

MNIST dataset predicts handwritten digits. LIME Image highlights pixels.

Tasks:

- 1. Load MNIST
- 2. Train CNN
- 3. Apply LIME Image
- 4. Visualize regions

Deliverables:

- Code
- Image outputs
- Report