

| 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 | 23CSBTB38 | |
| Assignment Number: 03 | | | | |
| Q. No. | Question | | | Expected Time to complete |
| 1 | Assignment Problem 1: IoT Intrusion Detection | | | |
| <p>Problem Statement:</p> <p>IoT dataset predicts attack/normal. LIME explains attack prediction.</p> <p>Tasks:</p> <ol style="list-style-type: none">1. Load dataset2. Train Random Forest3. Apply LIME4. Interpret features <p>Deliverables:</p> <ul style="list-style-type: none">• Code• Outputs• Cybersecurity report | | | | |
| 2. Assignment Problem 2: COVID-19 Severity Prediction | | | | |
| <p>Problem Statement:</p> <p>COVID dataset predicts mild vs severe cases. LIME explains features.</p> <p>Tasks:</p> <ol style="list-style-type: none">1. Load dataset2. Train Logistic Regression3. Explain with LIME4. Interpret medical features <p>Deliverables:</p> <ul style="list-style-type: none">• Code• Outputs• Report | | | | |