



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL**  
(An Institute of National Importance)

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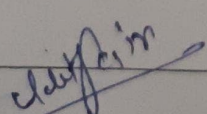
**M Tech Dissertation- Monthly Progress Report**

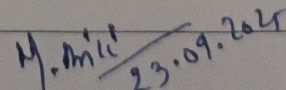
**Student Details**

Roll Number	24CSMR23
Name of the Student	Udit Jain
Program & Specialization	M.Tech. (CSE)
Academic Year	2025-26
Semester	Odd Sem
Supervisor	Prof. Mangubala Bisi
Month	September

**Monthly Progress details:**

Title	Reliability of Explainable AI on Software Defect Detection (SDD)			
Problem statement/Objectives	The challenge is to design a new parameters to check the reliability of XAI in Software Defect Detection where unstable explainability can be risky			
Progress Summary	<ul style="list-style-type: none"><li>• Implemented the approach for calculating the reliability score for SDD problem.</li><li>• Coded and tested the pipeline with proposed reliability metrics (GILR, Hit@K, ECE).</li><li>• obtained stable, reproducible results confirming approach effectiveness.</li></ul>			
Planned work for next month	<ul style="list-style-type: none"><li>• Implementing the framework on different models.</li><li>• Testing the Generalizability of Metrics.</li></ul>			
Any Publication (Conference paper/ Journal paper/ Book Chapter etc.)	—			
TA duties attended (weekly basis)	—			
Supervisor remarks (please Tick one of the options) about the student's project progress.	Excellent	<input type="checkbox"/>	Satisfactory	<input checked="" type="checkbox"/>
	Very Good	<input type="checkbox"/>	Marginal	<input type="checkbox"/>
	Good	<input type="checkbox"/>	Poor	<input type="checkbox"/>
	<u>Comments (if any):</u>			

  
Signature of the Student

  
Signature of the Supervisor/Guide