

**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI
WORK INTEGRATED LEARNING PROGRAMMES (WILP) DIVISION**

Final Evaluation Sheet

BITS ID No. : 2022MT93202

NAME OF THE STUDENT : MALLISWARI RAMA RAJU

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NAME OF THE SUPERVISOR: PHANI KUMAR DADDANALA

PROJECT TITLE : AI IN SOFTWARE TEST AUTOMATION

Final Evaluation Please put a tick (✓) mark in the appropriate box)

S. No.	Evaluation Component	Excellent	Good	Fair	Poor
1.	Final Project Report	✓			
2.	Final Seminar and Viva-Voce				


S. No.	Evaluation Criteria	Excellent	Good	Fair	Poor
1	Technical/Professional Competence	✓			
2	Work Progress and Achievements		✓		
3	Documentation and expression		✓		
4	Initiative and Originality	✓			
5	Research & Innovation	✓			
6	Relevance to the work environment	✓			

Please ENCIRCLE the Recommended Final Grade: Excellent / Good / Fair / Poor

Remarks of the Supervisor:

Implementation of AI for production defect root cause analysis is relevant for current Cirrus domain. The application is complex with multiple functionalities being developed by different teams continuously resulting in frequent changes to the application. This results in varied production defects that are currently analysed manually for regression suite enhancement. In the present process, cost of implementation towards RCA is high, both in terms of human resources and bandwidth.

Automation of the process using AI is justified to significantly reduce overall cost that includes manual effort and time, and improve software quality. The dissertation demonstrates an innovative approach to addressing longstanding challenges in defect RCA. 78% Accuracy with the model is good, given the data limitations. The outcome looks promising for solving current problem and has scope for further refinement of algorithms and models to enhance accuracy in future. This AI-powered solution can also be integrated with Cirrus database and codebase to streamline workflows and facilitate seamless collaboration between development teams.

	Supervisor	Additional Examiner
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