An Abstract
On

Smart Simulation And Performance Evaluation

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(Accredited by NAAC With 'A' Grade& Accredited by NBA (EEE, ECE & CSE))

2025-26

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SMART SIMULATION AND PERFORMANCE EVALUATION

ABSTRACT

This project introduces a Smart Simulation and Performance Evaluation System designed to provide a digital solution for practicing tasks, experiencing realistic simulations, and receiving automated performance assessment. It addresses the limitations of traditional evaluation methods that rely on manual observation, subjective scoring, and inconsistent feedback. The research focuses on the problem of inefficient skill assessment and raises the question of how simulation-based technology can improve accuracy, consistency, and personalized learning insights across various training and educational environments. The objective is to develop a platform that allows users, trainers, and administrators to interact seamlessly through smart simulations, automated scoring, structured analytics, and role-based access. To achieve this, we utilized web-based application development methodologies, workflow modeling, data-driven evaluation techniques, and secure authentication mechanisms to build and validate a fully functional system.

The results demonstrate that integrating smart simulations with automated performance evaluation significantly reduces manual effort, improves assessment accuracy, and enhances user engagement through interactive and realistic practice environments. These findings indicate that the proposed system effectively strengthens learning efficiency, supports continuous skill development, and improves the overall evaluation experience for all stakeholders. The implications of this research suggest that such a digital assessment platform can be widely adopted in educational institutions, training centers, and professional skill-development programs, ultimately promoting more structured learning, reliable performance monitoring, and a stronger technology-driven evaluation ecosystem.

PROJECT GUIDE

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