



PRESIDENCY UNIVERSITY

Private University Estd. in Karnataka State by Act No. 41 of 2013
Itgalpura, Rajankunte, Yelahanka, Bengaluru – 560064



Ideate and Implement a System to Enhance the Quality of education in rural areas

A PROJECT REPORT

Submitted by

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Under the guidance of,

Ms Monisha Gupta

**BACHELOR OF TECHNOLOGY
IN
INFORMATION SCIENCE AND TECHNOLOGY**

PRESIDENCY UNIVERSITY

BENGALURU

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PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

Certified that this report "Ideate and implement a System to enhance the quality of education in rural areas" is a bonafide work of 'Yashwita T(20221IST0009)', 'G Yaswanth Kumar(20221IST0011)', 'Varsha B(20221IST0036)', who have successfully carried out the project work and submitted the report for partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in INFORMATION SCIENCE AND TECHNOLOGY during 2025-26.


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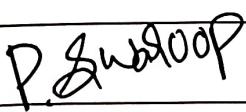
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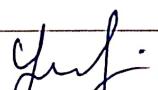
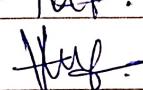
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DECLARATION

We the students of final year B.Tech in INFORMATION SCIENCE & TECHNOLOGY Presidency University, Bengaluru, named Yashwitha T, G Yaswanth Kumar , Varsha B hereby declare that the project work titled "**Ideate and Implement a System to Enhance the Quality of Education in Rural Areas**" has been independently carried out by us and submitted in partial fulfillment for the award of the degree of B.Tech in INFORMATION SCIENCE AND TECHNOLOGY during the academic year of 2025-26. Further, the matter embodied in the project has not been submitted previously by anybody for the award of any Degree or Diploma to any other institution.

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Abstract

Rural education continues to face long-standing challenges such as the lack of adequate teaching materials, limited access to well-trained educators, infrastructural gaps, and consistently low levels of student participation, all of which collectively result in poor academic performance and restricted learning opportunities for children in remote areas. Recognizing these issues, the project aims to conceptualize and implement a comprehensive technology-based solution tailored specifically for rural learning environments. This solution brings together low-cost digital infrastructure, interactive multimedia learning content, and a blended teaching methodology that combines both traditional classroom instruction and digital learning support. The approach includes providing offline digital learning modules that function without continuous internet connectivity, establishing accessible community learning centers to offer structured and safe learning spaces, and enabling remote mentoring sessions to support students in areas where qualified teachers are scarce. To ensure continuous improvement, the project also integrates a robust data-driven monitoring system designed to track student progress, analyze learning patterns, identify conceptual gaps, and deliver personalized learning recommendations that cater to individual student needs. During the pilot implementation conducted across selected rural schools, the model demonstrated significant improvements in student engagement, conceptual understanding, digital readiness, and teacher facilitation, proving that technology can meaningfully enhance the learning experience even in resource-constrained environments. These positive outcomes strongly indicate that a scalable, affordable, and sustainable digital ecosystem can transform rural education by increasing access, promoting equity, and strengthening overall academic performance. Ultimately, the findings suggest a high potential for replicating this model across other underserved communities, supporting national efforts to achieve inclusive, high-quality, and future-ready education for all learners.