STUDENT INFORMATION MANAGEMENT SYSTEM

A Minor Project Report Submitted in Partial Fulfilment of the Requirements for the Award of Degree Of

BACHELOR OF TECHNOLOGY

IN

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(Artificial Intelligence & Machine Learning)

BY

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UNDER THE GUIDANCE OF

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BALAJI INSTITUTE OF TECHNOLOGY & SCIENCE

Laknepally, Narsampet, Warangal (Rural)-506331, Telangana State, India

(Autonomous)

Accredited by NBA (UG-CE, EEE, ECE, ME & CSE Programmes) & NAAC A+ Grade

(Affiliated to JNTU Hyderabad and Approved by the AICTE, New Delhi)

2024-2025

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(Artificial Intelligence & Machine Learning)

CERTIFICATE

This is to certify that Mr. ADEPU SUDHEER KUMAR (22C31A6601) along with Mr. ANUMULA SAHODAR REDDY (22C31A6606), Ms. KOKKONDA SRINITHA (23C35A6603), Mr. NALAMASA NAVEEN (22C31A6648) of the Dept. CSE(AI&ML) III-II Semester, has satisfactorily completed the Minor project work entitled "STUDENT INFROMATION MANAGEMENT SYSTEM" in the partial fulfillment of the requirements of the B.Tech degree during this academic year 2024-2025.

Project Guide

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(Artificial Intelligence & Machine Learning)

CERTIFICATE FROM THE HEAD OF THE DEPARTMENT

This is to certify that the Project Report entitled "STUDENT INFORMATION MANAGEMENT SYSTEM" being submitted by Mr. A. SUDHEER KUMAR (22C31A6601), Mr. A. SAHODAR REDDY (22C31A6606), Ms. K. SRINITHA (23C35A6603), Mr. N. NAVEEN (22C31A6648) of in partial fulfilment of the requirements for the Award of the Degree of the Bachelor of Technology in computer science and engineering (Artificial Intelligence & Machine Learning) is a record of bonafide work carried out by them under my guidance and supervision.

The result of investigation enclosed in the report have been verified and found satisfactory. The results embodied in this thesis have not been submitted to any other University for the award of degree or diploma.

Dr. J. VIJAY KUMAR
Associate Professor & Head of the Department,
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ACKNOWLEDGEMENT

I thank the almighty for giving me the courage and perseverance in completing the project. This project itself is an acknowledgement for all those people who have given me their heart full co-operation in making my project a success.

I register a deep sense of gratitude to **Dr. V. S. Hariharan, Principal** for making me available the necessary infrastructure.

I am greatly indebted to **Dr. J. Vijay Kumar, Associate Professor - Head of the Department, CSE(AI&ML)** for his valuable advices at every stage of this work. I feel that without his supervision and many hours of devoted guidance, stimulating and constructive criticism, and this thesis would never have come out in this form.

I am also thankful to **Mr. S. Santhosh Kumar Asst. Prof, Project Coordinator** for providing the excellent facilities, motivation and valuable guidance throughout the project work. With his co-operation and encouragement, I completed the project work in time.

I take this opportunity to express my deep and sincere gratitude to the project guide **Dr. J. Vijay Kumar, Associate Professor & Head of the Department**, **CSE(AI&ML)**, Balaji Institute of Technology & Science.

Last but not least I would like to express my deep sense of gratitude and earnest thanks giving to my dear parents for their moral support and heartfelt co-operation in doing the project. I would also like to thank all the teaching and non-teaching staff and my friends, whose who direct or indirect help has enabled us to complete this work successfully.

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ABSTRACT

Managing student records manually using Excel sheets and paper-based methods is inefficient, time-consuming, and prone to errors. Faculty members face difficulties in handling multiple assessments, while students struggle to track their academic progress without direct faculty intervention. The lack of a centralized system results in accessibility issues, data inconsistency, and increased administrative workload. The current student record management process relies on manual entry and storage methods, which are susceptible to misplacement, duplication, and calculation errors. Faculty members must update marks manually, leading to inefficiencies, while students depend on faculty to retrieve their academic performance. This outdated system lacks real-time accessibility and role-based security, making it difficult to maintain accurate and organized records. To overcome these challenges, the Student Information Management System (SIMS) is developed as a web-based platform that automates student record management. The system provides faculty with an intuitive interface to enter, update, and track student marks across various assessments, such as unit tests, mid-term exams, and final evaluations. It also enables students to access their academic progress in real time, reducing dependency on faculty intervention. The system is built using modern web technologies including HTML, CSS, JavaScript for the frontend, Node.js with Express.js for the backend, and MySQL for database management. It features role-based access control for security, automated calculations for cumulative scores, and real-time validation to minimize errors. The platform also supports data export, performance analytics, and a responsive design for accessibility across multiple devices. By replacing outdated manual processes with a centralized and automated approach, SIMS enhances data accuracy, reduces faculty workload, improves transparency, and ensures students can conveniently track their academic progress. This structured and efficient academic management system ultimately benefits faculty, students, and administrative staff, fostering a more organized and accessible educational environment.