MALLA REDDY UNIVERSITY
(Telangana State Private Universities Act No. 13 of 2020 &
G.O.Ms.No. 14, Higher Education (UE) Department)
Maisammaguda, Kompally,
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Telangana State.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
III B. TECH I SEM
TITLE & ABSTRACT SUBMISSION FORM
Application Development – Machine learning

Title of the Application	**CardioSmart 360**

Batch Details:

S.No	Batch No.	Registered No.	Student Name
1	B48	2211CS010547	SUBHAPREET PATRO
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Abstract:

In the realm of medical diagnostics, the timely and accurate analysis of patient data is crucial for effective treatment and management. Addressing the challenges associated with data management and prediction, we developed a Python-based heart disease prediction system leveraging advanced machine learning techniques.

Our system integrates a comprehensive prediction model to assess the likelihood of heart disease based on various patient attributes, including age, sex, chest pain type, cholesterol levels, fasting blood sugar, electrocardiographic results, maximum heart rate, exercise-induced angina, ST depression, the slope of the peak exercise ST segment, the number of major vessels coloured by fluoroscopy, and thalassemia status. By incorporating these parameters, the model provides a robust prediction mechanism that aids clinicians in making informed decisions.

The integration of machine learning and database management within a single platform highlights the potential for technology to enhance medical diagnostics and patient care.

Signature of the Guide