



MALLA REDDY UNIVERSITY

(Telangana State Private Universities Act No.13 of 2020 and G.O.Ms.No.14, Higher Education (UE) Department)

INFORMATION TECHNOLOGY

(Academic Year 2024- 25)

Application Development

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Proposed Title of the Application Development:	PERSONALIZED NUTRITION PREDICTOR	
<p>The personalized nutrition market is projected to grow to \$16.4 billion by 2027, driven by increasing health consciousness and demand for customized diets. Current methods, relying on manual calculations and generalized strategies, are often restrictive and fail to meet individual needs, highlighting the need for advanced solutions.</p> <p>Our research introduces a deep learning model that personalizes nutrition using biomarkers, dietary habits, and activity data. The process includes cleansing and structuring health records, feature engineering, and predictive modeling to estimate nutritional needs. The model evolves over time, ensuring more precise recommendations.</p> <p>This innovative approach addresses the limitations of existing methods, improving the accuracy and efficiency of personalized nutrition. By integrating deep learning with health data, it paves the way for tailored dietary solutions that enhance health outcomes and user satisfaction.</p>		
Key words: Deep Learning, Biomarkers, Health Data Analysis, Health Data.		

Signature of the Guide

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