



MALLA REDDY UNIVERSITY

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

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SCHOOL OF ENGINEERING

DEPARTMENT OF AI & ML (III Year I Semester)

Application Development – Deep Learning Explore (MR22-1CS0263)

Date:

Name of the Guide	Prof A.Kalyani (MRUE2204T085)	
Project Title	UPI FRAUD DETECTION USING DEEP LEARNING	
Project Title (Any Change)		
Section Name & Batch Number	AIML-TETA (TT-2)	
Batch Student Details	Roll No	Student Name
	2211CS020442	RENANGI SAI MOHITH
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Abstract Work	<p>The surge in UPI-based digital payments has been accompanied by a parallel increase in fraudulent activities, posing significant financial risks. This research investigates the application of deep learning models, specifically Long Short-Term Memory (LSTM) and Autoencoders, for real-time detection of fraudulent UPI transactions. LSTM, owing to its ability to capture sequential dependencies, is employed to analyze transaction patterns over time, identifying anomalies indicative of fraudulent behavior. Conversely, Autoencoders are utilized to learn a compressed representation of normal transactions, enabling the detection of deviations through reconstruction errors. By combining the strengths of both models, a robust fraud detection system is developed. Experimental results demonstrate the efficacy of the proposed approach in accurately identifying fraudulent transactions, thereby enhancing the security of UPI payments and mitigating financial losses.</p>	

Note: Abstract should be 250-300 words which should indicate the outcomes of the selected project.

Project Guide

AD-Mentor

AD-Incharge

DEAN (AI -ML)