Updating of GIS maps with Change Detection of Buildings using Ensemble of ResNet and U-Net Model

EPICS PROJECT REPORT

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

By

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
V.R SIDDHARTHA ENGINEERING COLLEGE

Autonomous and Approved by AICTE- NAAC A+ Accreditation

Affiliated to Jawaharlal Nehru Technological University, Kakinada

Vijayawada-520 007

December, 2023

V.R SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

CERTIFICATE

This is to certify that the EPICS Project Report entitled **"Updating of GIS maps with Change Detection of Buildings using Ensemble of ResNet and U-Net Model"** being submitted by ----- in partial fulfillment for the award of the Degree of **Bachelor of Technology** in ARTIFICIAL INTELLIGENCE AND DATA SCIENCE to the **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out under my guidance and supervision. Certified further, that to the best of my knowledge the work reported herein does not form any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or anyother candidate.

XXXX

Professor & Guide

Dr.S.Vasavi, MS, Ph.D

Professor & Head of the Department

DECLARATION

We hereby declare that the dissertation entitled *Updating of GIS maps with Change Detection of Buildings using Ensemble of ResNet and U-Net Model* submitted for the B.Tech Degree is our original work and the dissertation has not formed the basis for the award of any degree, associateship, fellowship or any other similar titles.

Place: Vijayawada   Student Name (rollno)

Date: Student Name (rollno)

ACKNOWLEDGEMENT

Behind every achievement lies an unfathomable sea of gratitude to those who activated it, without whom it would ever have come into existence. To them we lay the words of gratitude imprinted with us. We would like to thank our respected Principal, **Dr. A.V. Ratna Prasad** and **Dr. S.Vasavi**, Professor & Head, Artificial Intelligence & Data Science for their support throughout our Project. It is our sincere obligation to thank our guide, **xxxxx, Professor**,Department of Artificial Intelligence & Data Science, for her timely valuable guidance and suggestions for this Project. We owe our Acknowledgement to an equally long list of people who helped us in this Project. Finally, we wish to thank all the supporting staff who gave us facility in lab for the completion of this Project.

Place:Vijayawada   **Student Name (rollno))**

Date: 21-06-2023   **Student Name (rollno)**