

Rajalakshmi Engineering College

Department of Artificial Intelligence & Machine Learning

III Year (2025 – 2026) - AI23521: Build and Deployment of ML app

Mini Project - Abstract

Title	VisionOps-Automatic Image Colorization using Deep Learning and Deployment with Flask	
Team Members	Reg. No. 1. 231501011 2. 231501028 3. 231501033	Name Akshaya Nair Aswini G Delli Ganesh
Project Mentor	V. Vijayabhaskar, Assistant Professor (SG), Dept. of AIML	
Project ID		

Abstract (Font size should be twelve and font Times new roman)

This project implements **Active Contour Segmentation (Snake Algorithm)** to detect object boundaries in digital images. The method evolves a contour based on internal (shape) and external (image gradient) forces to accurately outline objects. Using Python, OpenCV, and skimage, the contour adapts dynamically to the image features. Parameters like **alpha**, **beta**, and **gamma** are tuned for smooth and precise segmentation. The approach effectively highlights regions of interest for image analysis and computer vision applications.

SUPERVISOR

REVIEWER