

Vivekananda College of Engineering & Technology

[A Unit of Vivekananda VidyavardhakaSangha, Puttur @]
Affiliated to Visvesvaraya Technological University
Approved by AICTE New Delhi &Govt of Karnataka

PRJ02 Rev 3.0 CD 17/09/2024

STUDENT PROJECTS

MAJOR PROJECT PHASE-1 PLAN

Department: CD			Semester: 6		Academic Year: 2024–25	
I	Propos	Proposed Title of the Project:				
	Area of Specialization/Stream		Computer vision, Deep learning			
II	Name of guide:		Prof. Nagaraja N S			
III	Name of Team Members (Not more than four students in a batch):					
	Sl. No.	Name		USN	Contact No.	
	1	Naik Jitesh Mahabaleshy	var	4VP22CD032	8088724901	
	2	Rahul Umesh Durgekar		4VP22CD039	7892554261	
	3	Sachin Rathod		4VP22CD044	9353555475	
	4	Shreyas		4VP22CD052	9645517997	
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IV Introduction

The CCTV footage person attribute extraction system used to automatically analyze surveillance footage and extract detailed attributes of individuals such as height, weight, age, clothing color, and body tone. By utilizing advanced object detection and attribute recognition models, the system processes CCTV video streams to identify and describe people in real-time. This project focuses on providing actionable insights by generating comprehensive profiles of individuals captured in the footage, which can be used for more quick and effective security analysis and forensic investigations. This system delivers precise attribute extraction to assist security personnel in making informed decisions. This innovative approach enhances surveillance capabilities, making it a valuable tool for modern security and monitoring applications.

Objectives of the project

- To precisely identify height, weight, age, clothing colour, and body tone from CCTV footage.
- To analyze live or recorded video feeds instantly for timely insights.
- To assist in monitoring and investigations with detailed individual descriptions.
- To present the data clearly for easy interpretation and decision-making.

V Methodology

The system follows a structured pipeline to convert raw CCTV footage into actionable insights. It begins taking CCTV footage, which is then pre processed to enhance quality through tasks like noise reduction, resizing, and normalization. Object detection models such as YOLO or Faster R-CNN identify individuals in the frames. Once detected, deep learning model extracts key attributes like height, weight, age, clothing colour, and body tone. The extracted attributes are organized into comprehensive profiles, providing detailed descriptions of each individual. The system presents the data in a user friendly format such as a dashboard or report, enabling security teams to interpret and act on the insights quickly. This seamless flow ensures efficient monitoring and decision-making, transforming raw footage into meaningful information.

Checked by: Project Coordinator HOD Nehru Nagar, Puttur - 574 203, DK, Karnataka State – INDIA.

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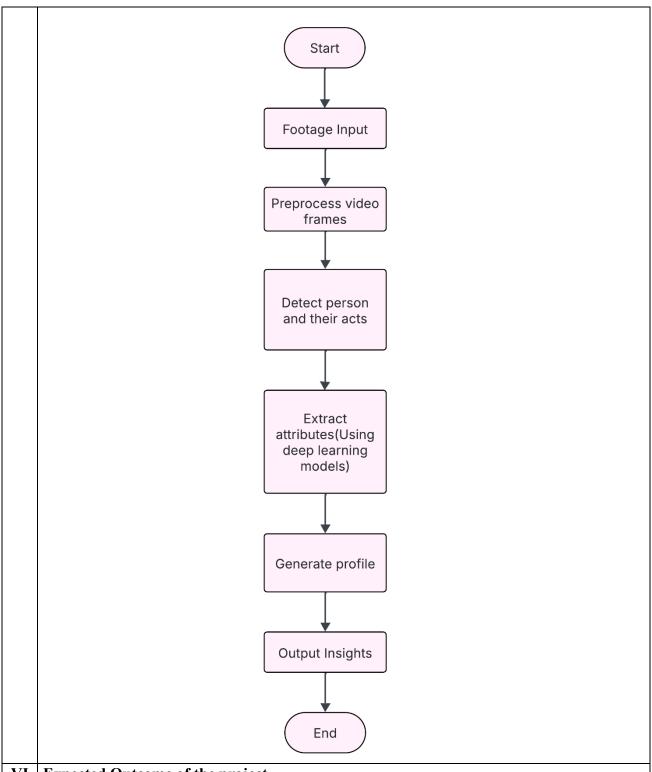
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VI | Expected Outcome of the project

- Generate precise individual profiles (weight, height, age, clothing colour, body tone) from CCTV footage.
- Provide instant insights from live or recorded video feeds.
- Enhance security efficiency with automated attribute extraction and user-friendly outputs.

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STUDENT PROJECTS

VII	Application of the project					
	Security and surveillance.					
	• Forensic investigation.					
	Crowd management.					
	• Retail analytics.					
VIII	Does the project proposed is relevant to any of the Industry or Institution in and around					
	your area: No					
IX	Budget					
	Materials Cost:	-				
	Labour Charges:	-				
	Any other cost:	7000				
	Total:	7000				
	Source for Funds:	Self				
**						
X	Schedule for Major Activities					
	Data of common comput of majorti	18-02-2025				
	Date of commencement of project:	25-02-2025				
	Project Plan (Synopsis) submission to the Department					
	Review of the Project Plan by Guide/Project Coordinators/HoD	25-02-2025 to 28-02-2025				
	Presentation 1:Presentation of Project Plan (Synopsis)	1st Week of March 2025				
	Submission of Progress report: Chapter 1: Introduction &	18-04-2025				
	Chapter 2: Literature review-Problem Statement, Requirements					
	Specification and Analysis(soft copy)	Detrois at 4th Wests of Amei				
	Project Phase-I Presentation 2: Introduction & Literature	Between 4 th Week of April 2025 to 1 st Week of May				
	review-Problem Statement, Requirements Specification and Analysis	2025 to 1 week of May 2025				
	Submission of soft copy of Project Report	Before 10-05-2025				
	Date of completion of the Project Phase-I report on	20-05-2025				
	Introduction & Literature review-Problem Statement/					
	Requirements Specification and Analysis.					
	redunements specification and marysis.					
XI	Team members					
	Student(s)	Signature with date				
	1. Naik Jitesh Mahabaleshwar					
	2. Rahul Umesh Durgekar					
	3. Sachin Rathod					
	4. Shreyas					
	Guidance	~! · · · ·				
	Guide allotted:	Signature with date				
	1. Guide: Prof. Nagaraja N S					

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