Data Collection and Preprocessing Phase

Date	15 JUNE 2025
Team ID	SWTID1749902640
Project Title	CRIME VISION: ADVANCED CRIME CLASSIFICATION USING TRANSFER LEARNING
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

Data Collection Plan Template

Section	Description
Project Overview	A machine learning project to classify video/image frames into different crime categories (e.g., Robbery, Vandalism, Explosion, etc.) using deep learning with transfer learning (DenseNet121). The objective is to build an intelligent crime detection system based on visual inputs.
Data Collection Plan	Data was collected from publicly available video datasets and categorized manually into 14 crime classes. It was then divided into training and testing sets stored in /content/Train and /content/Test.
Raw Data Sources Identified	Collected video frames were processed into images and sorted by crime categories like Fighting, Robbery, Explosion, etc. Stored in class-wise folders for training and testing.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
UCF-Crime Dataset (Processed)	Frame-wise images categorized by crime types such as Assault, Shoplifting, Robbery, etc.	Local path: /content/Train, /content/Test	.jpg, .png	~300MB–1GB (depends on usage)	Internal (No public access unless uploaded to a shared repo)
Manually Curated Crime Clips	Supplementary video clips converted to images using OpenCV and categorized	Local or extracted from YouTube/CCTV datasets	.png	~500 MB	Public sources but processed locally
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