**PROJECT PROPOSAL**

**CSCE 5390 Section 002 - Multimedia Computing**

**VIDEO OBJECT DETECTION AND CONTENT SEARCH**

Project Group-13

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Abstract:

This 21St Century is data-driven, the information has achieved great value, and abstraction of information and analysis has been a vital role. The Cameras have the most information of all, and the techniques of information extraction from images and videos are increasing daily.

We have planned to build an AI-based project, which has neural networks and deep learning frameworks. The idea is to build a system that has a video content search engine that helps to sort and search the contents of the video. To build this first we need to identify the objects in the video and then we need to apply machine learning techniques to categorize the contents and objects detected in the video. With this we can label each object that has been detected in the video and then when we build the search engine, we can search for the object of our desire and as we have labels for the video, we can get the redefined videos that have the contents of the searched objects. We need to first convert the video into frames and then each frame must be passed through an algorithm to get the object in the respective frames. The frames which have objects should be labeled accordingly and then the frames need to be concatenated. The whole system must have a search engine this helps to search the videos that have objects and the contents that we desire. Our video recording contains many objects like different persons, landscapes, buildings, and various objects.