Ideation Phase

Literature survey

Project Name:- Project - VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning

Abstract:-

Swimming is one of the exercises done by modern people to relieve stress from their daily life. But the unplanned death from drowning is in the third place in the world. There is a need to find a solution to this problem. In Project - VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning we find solution to this problem by detecting active drowning with the help of live feeds to alert the lifeguard.

The novice swimmers, children find it hard to breath underwater and are not accustomed to swimming like veteran swimmers this causes a lot of drowning incident. Even if the lifeguard are on their toes it is easy to miss details of drowning. This causes us to lose our loved ones.

In this system we detect the objects in the swimming pool with the help of cameras. The swimming pool is recorded with the cameras and the live feed is used to detect drowning and give alert to the lifeguard. This helps the lifeguard to take action as soon as he/she gets the alert.
Here we use YOLO algorithm to train our model to identify the active drowning movements.

For this purpose we train our model to detect objects and then to identify drowning movements with the help of images and videos which helps to identify drowning movements in real time. This system assures public to have a ssafe and secure time of swimming and help the lifeguard to save lives without any regrets.

Reference:-

Project description from dashboard
https://www.thewirh.com/blog/dds-how-do-they-work
Artificial Intelligence usecases
AngelEye
SwimEye