Project Title : Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning

Batch name: B3-3M5E

PROPOSED SOLUTION

Problem Statement:

- Drowning detection system that detects every dangerous situation and accident. This software works in close integrationwith the cameras installed in the pool to continuously scan the pool.
- This system can also able to record all the activities in the pools and to classify critical situations from normal ones in order to keep track of what happened.
- The built-in notification system produces alarms within 10 seconds on smartwatches, phones, flashing lights and other configurable devices.
- Thus a meticulous system is to beimplemented along the swimming poolsto save human life. By studying body movement patterns and connectingcameras to artificial intelligence (AI) systems we can devise a pool safetysystem that reduces the risk of drowning.

Idea / Solution description :

- This system by analyzing the movement and shape, evaluates swimmers' conditionbased on visual based monitoring device and an alarm to alert the lifeguards and provides solution in detecting drowning incidents.
- While challenging in many aspects, a successful system will bring inestimable value in saving human lives

Novelty / Uniqueness :

- Virtual eye has developed a novel idea of alerting the ambulance and another lifeguard if there is any delay in saving the person to death.

Social Impact / CustomerSatisfaction:

- Drowning produces a higher rate of mortality without causing injury to children.
- Children under six of their age are found to be suffering the highest drowning mortality rates worldwide. Such kinds of deaths account for the third cause of unplanned death globally, with about 1.2 million cases yearly.
- To overcome this conflict, a meticulous system is to be implemented along the swimming pools to save human life.
- By studying body movement patterns and connecting cameras to artificial intelligence (AI) systems we can devise an underwater pool safety system that reduces the risk of drowning.

Business Model:

- There are many products currentlyavailablein this regard. Our solution, once developed well, has enough possibility to become a good product to save drowning victims.

Scalability of the Solution:

- Our proposed solution is very scalable i.e., in future, there are a lot of rooms for evolving our present model by Adding new features to enhance our system in the future.