BRAINSTORM : VirtualEye- LifeGuard for Swimming pools to Detect Active drowning

QUESTIONS

What will we

- Controlling the drowning using a apllication we are building. — shobana
- An virtualEye camera deployed on the observation in the swimming pool. — shobana
- Detection of drowning is done through the deployment of aerial image. — shobana
- The drowning areas are identified through the exeaction of both static and dynamic. — shobana

How might we

- Reduce the drowning deathrate — shobana
- Early detection of drowning leads to protection of people who drowned inside the swimming pool. — shobana
- The alarms are transmitted through water and picked up by the receivers/ hydrophone placed at different locations in the water body — shobana
- Two drowning detection sensors are placed on the side elastic of the goggles. — shobana

How will we

- Video input is captured from the cameras and other inputs are calculated by sensors. — shobana
- Deep learning model checks for the detection of drowning. — shobana
- If there is any drowning action happens then it automatically provide alert signal to the remote users. — shobana
- If any cause of drowning no major cause. — shobana

Who wil..

- SHOBANA.L is the team leader and function according to team members opinion. — shobana
- SINEKA.R is responsible for documenting and analysis the project works. — shobana
- SOWMIYA.K is our team formulator of our team developing the application. — shobana
- YURASIKA.V act as end user who will be checking the software and report based on analysing. — shobana
- TAMILARASI is our team reporter who finalizing and analysing our project. — shobana

SOLO BRAINSTORMING

Shobana

NOTES:

Safety in water has been a concern for many centuries for the survival of human lives. The latest technology advancements have enabled to come up with effective drowning detection methodsWith the advancement in technology, various drowning detection methods are available

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Sineka

NOTES:

A solution developed for pool might not be effective in the ocean. Another type of detectors is non-wearable. E.g. Video surveillance based systems that focus on taking images of the swimmer and water. The video surveillance comes with few design limitations like unable to work in darkness, prediction depends on the quality of the image, and need of high power computing devices

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Sowmiya

NOTES:

Drowning is classified into two, active drowning and passive drowning. In the active drowning, the victim express distress that is noticeable to others.The passive drowning happens due to medical reasons like stroke; heart attack etc. or it could be that the person has become unconscious. All these characteristics make the detection of drowning difficult for even professional lifeguards.

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Yurasika

NOTES:

Video surveillance based systems that focus on taking images of the swimmer and water. The video surveillance comes with few design limitations like unable to work in darkness, prediction depends on the quality of the image, and need of high power computing devices. Various enhancements are provided to the video surveillance methods.

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Tamilarasi

NOTES:

Drowning detectors detect the drowning by analysing the various readings exhibited during drowning distress, by the victim. This could be like monitoring the waves generated due to panic to monitoring the irregular pressure variations from the gadget, used by the victim. In the method described in this paper, we try a novel method which could predict the drowning.

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GROUP BRAINSTORMING