

# Ideation Phase: Brainstorm & Idea Prioritization

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Project Title: VirtualEye- LifeGuard for Swimming Pools To Detect Active Drowning

- IDEA LISTING-

## Abbeer Wani

Detection  
using Active  
Contour

Falling and  
drowning detection  
through input from  
sensors like  
gyroscope,  
accelerometer, GPS

Gesture  
recognition

An effective  
combination of  
Textures and  
Wavelet features for  
Facial Expression  
Recognition

## Priyanka M

*using one of the real  
time object  
detection algorithms  
- YOLOv3 to detect  
object in video  
frames*

using warning  
prompt window in  
the systems used  
for monitoring and  
alarm system to  
lifeguards

installing 16 cameras  
underwater and 8  
cameras above the  
pool to increase the  
accuracy of  
detection

using sensors on the  
wrist of the swimmers  
to track the speed  
and time inside the  
water to detect  
whether the person  
is drowning or not

## Swethasree Sribabu

Anti  
Drowning  
system with  
Remote alert

Drowning  
detection  
using LRCN

Swimming pool  
monitoring  
system using  
loRa and  
Arduino

Drowning  
detection  
using CNN

## Sneha Raj

development  
in  
sophisticated  
aquatic vision  
technology

robotic pool  
cleaning  
technology  
and drowning  
detection

underwater  
swimming  
pool camera  
systems

live video stream  
from our  
underwater  
cameras,  
automatically  
monitored

- IDEA PRIORITIZATION-

