VirtualEye- Life Guard for Swimming Pools to Detect Active Drowning

PROBLEM STATEMENT:

Mr.Alex is a 27 years old man. He is a Lifeguard and saved a lot of people life in swimming pool.

• Alex need to save the life of a swimmer at earlier stage

• He saw many drowning accident

• This problem is usually occur when there is 3 or more people drowning at same time

Who does the problem affect?	Swimmer in swimming pool
What are the boundaries of the problem?	Swimmers and for Lifeguard
What is the issue?	If 3 or more swimmer is drowned under a water at same time then there is a chance of loosing life
When does the issue occur?	The drowning occurs when there is lack of health issue in swimmer's life
Where does the issue occur?	This occurs in swimming pool
Why is it important that we fix the problem?	To save the swimmer's life
What solution to solve this issue?	In some situation , at a time 3 or more drowning may occur so by providing the swimmer's age details along with drowning status it will be helpful for lifeguard to save the children first
What methodology used to solve the issue?	Yolo v3 is used along with deep learning to identify the person is drowning or not and Open CV age detection algorithm with deep learning is used to get age details of a swimmer