Ideation Phase Define the Problem Statement

Team ID	PNT2022TMID43572
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks
Team Members	Barshad Basha, Shamal.M, Jishin.M, Abhinandh.K

S_tep-1: Team Gathering, Collaboration and Select the Problem Statement



VIRTUAL EYE

Brainstorm & idea prioritization

In this session we aim to achieve a good base for beginning our project. With clear understanding of the task in hand, the next step would be to collectively put in our thoughts/ imagination and end with a proper feasibility study.

Ground Rules

- Be Creative
- Rule out every possible ideas and improvements
- purposeful
- Don't hesitate. (Every point is noteworthy)

Choose your best "How Might We" Ouestions

Share the top 5 brainstorm questions that you created and let the group determine where to begin by selecting one question to move forward with based on what seems to be the most promising for idea generation in the areas you are trying to impact.

QUESTION 1

How might we detect and

differentiate active

drowning with the least

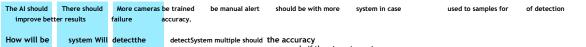
possible error rate?

- Make your points clear and

ming" Brainstorm solo Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silentavoids group-think and creates an inclusive environment for introverts and extrov alike. Set a time limit. Encourage people to go for quantity. Milan Mohan 10 minutes absolute drowning transfer to achieve and also alrerting the rescue team of BW to get the classifiable video of Alwin Miller C J ensuring ways where ensuring the video using alternative there is a 100% feed is not High level being source of energy gaurentee of spotting a recorded or saved such as solar to make drowning situations and instead being used a green system but testing must be carried out hyperparameters and Efficient before real must be found for algorithms to world the model be followed deployment. strategically to achive only for detection Requires HD Underwater Cameras for cameras a supply is good quality possible solution must for the frames to be to detect humans system to run under deep water processed & report having an integration having retro reflective with fitness band Make sure the Provide critical Make sure the stakeholders and proper stakeholders understand that message to the know, how the there is a possibility rescue team system works. for a false alarm as possabilities of a detection easy drowning incident

Ansil Shamsudheen

video stream annov



properly if the drowning and should report system?

For privacy The system cameras can be purpose the mounted on the

should not for large

shouldnt

Muhesh

power backup

properly for

happens if

people there

powerful to

results

connectivity should be

maintained there in case of powercut. for faster alert

The network

should be

trasmission, good

When moreare drowning

Usealgorithm

will be a problem to

animals were detect all so multiple get trained encountered from various in the pool? datasets. problems.

haring space" within the them. As a team, sort and Brainstorm as a group :uss and answer any questions ideas of other people along

the team silently read through group them by thematic topics or that arise. Encourage "Yes, and... and build on the the way.

① 15 minutes

Have everyone move their ideas

into the "group template and have

similarities.

able to process

as a probable

instance

discarded









Connectivity

shoul be good BW to get the

for faster alert classifiable

deo of trasmission.

derwater footage

0

If each of these tasks coul

Importance

most positive impact

transfer to which would have the

he network optimized feed get done without any difficulty

Prioritize

are feasible.

① 20 minutes

on the strongest ideas.

1 Input devices 2 Alerting systems 3 Backup and ACS

I all be on the same page

hout what's important

noving your ideas on this

rid to determine which

forward. Place whileas are important and

. Cameras in floating

Feasibility

1. Achieving all

features

P

least delay.



Give each person two icons to vote which duties & responsibilities

Decide your focus

idea should your team focus on & assign the

0 5 minutes

Alwin Miller C J Backend and Intergration

Ansil Shamsudheen Musesh Frontend and and Utils Design

Milan Moha

Backend and A

Whats Next...

1. Plan and code an effecient model and train it with the correct hyperparameters to produce a probable and accurate result. 2. Enhance the system to work in a proper

environment in an integrated manner to yield a cohesive solution. 3. Create a proper frontend dash to give

critial information with atmost clarity and

4. Comeup with the solution that is minimal, portable less intrusive and cost effective.

