IDEATION PHASE

Step-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

Ground Rules

problem

- . Be Creative
- Rule out every possible ideas and improvements
- Make your points clear and purposeful
- Don't hesitate. (Every point is noteworthy) • Arguments are good ALA it lands beneficial
- Have various perspectives towards the

Choose your best "How Might We" Questions

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.

(†) 10 minutes

QUESTION 1 How might we detect and differentiate active drowning with the least possible error rate?

QUESTION 2 How might we automate the alert systems so as to provide crutial stats and info to the rescue team ?

OUESTION 3 How might we optimize the results in the least time?

How might we bring more privacy, yet use camera for detection?

QUESTION 5 How might we optimally use minimal hardware to get the most accurate information in an

around the environment?

Brainstorm solo

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-storming" avoids group-think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

Kishore Kumar

High level testing must be carried out before real world deployment.	Proper hyperparameters must be found for the model	Systematic and Efficier algorithms t be follower
Requires HD cameras for good quality frames to be processed	Underwater cameras a possible solution to detect humans under deep water	24/7 Powe supply is must for th system to ru & report
Provide critical and proper message to the rescue team	Make sure the stakeholders know, how the system works.	Make sure the stakeholders understand tha there is a possibl for a false alarm a: well

Karthika

The AI should be trained with more	There should be manual alert system in case	More cameras should be used to
samples for	of detection	improve
better results	failure	accuracy.
How will be the accuracy level in the system?	will the system detect properly if the pool is clumsy?	System should detect multiple drowning and should report the same
For privacy purpose the video stream should not be stored,	The system shouldnt annoy others	cameras can be mounted on the bottom of floating boards for large swimming pools.

Babhu Ganesh

Barani

there is a 100% gaurentee of spotting a drowning situations and

Dabita Cartesti				
power backup should be there in case of powercut. What happens if animals were encountered in the pool?	The network connectivity should be good for faster alert trasmission. When commence will be a problem to detect all so multiple carpetinistic steeled problems.	cameras should be maintained properly for good results Use powerful algorithm to get trained from various datasets.		
Al should be trained in such a way that it should detect multiple drowning				

Brainstorm as a group

Have everyone move their ideas into the "group sharing space" within the template and have the team silently read through them. As a team, sort and group them by thematic topics or similarities. Discuss and answer any questions that arise. Encourage "Yes, and..." and build on the ideas of other people along

① 15 minutes

suggestive ways t

information reaches i one or more ways as this deals with critical

life saving situation

making sure to

supply

whies and teaching age groups and also

them signals to make different swimming

instance

feed is not being recorded or saved instead being used

only for detection

the drowning

Features Privacy having an integration feed is not being recorded or saved ive better informat and predict instead being used purpose the indicators given to children and newbies only for detection video stream possabilities of a drowning incident which is later and teaching them signals to make the drowning detection easy should not discarded be stored. When more people are drowning there will be a problem to detect all so multiple cameras are needed to eliminate such User Perspective Cameras & Hardwares now the system works and should not Cameras should be annoy the bottom of floating boards for detectin system work. swimmers should be drowning effectively maintained especially on large Make sure the properly for good results swimming pools. stakeholders understand that **Network and Connectivity** there is a possiblity for a false alarm as System should detect multiple connectivity should be good drowning and should report for faster alert the same trasmission. Power 24/7 Power supply using alternative must for the system to run & report proper alerts to rescue team. Al and ML

Will the

system detect

properly if the

ransfer to achiev

classifiable video o

nderwater footag

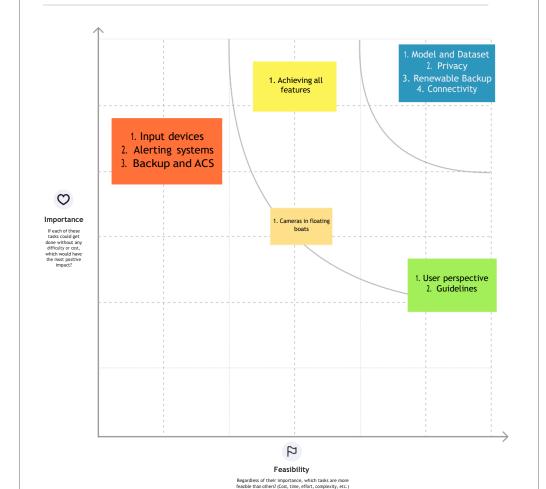
You can use the Voting session tool above to focus

on the strongest ideas.

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



Decide your focus

Give each person two icons to vote which idea should your team focus on & assign the duties & responsibilities

Kishore Kumar Barani Backend and MLA Backend and Intergration Karthika Babhu Ganesh

Frontend and and Utils

Whats Next...

Design

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



Team

Kishore Kumar Barani

Karthika



















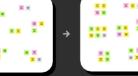
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hyperparameters

must be found for

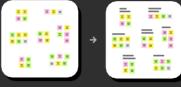
the model

The AI should

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samples for

better results



and also alrertin

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as a probable

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should detect

testing must be carried out

before real

world

deployment.









