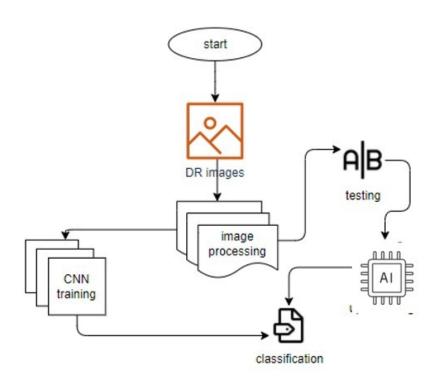
Please provide the link to access your supporting document.(For more details, https://www.wikihow.com/Make-a-Google-Doc-Public). The supporting document needs to be a **single** document in pdf format in the following order for idea

- 1. Idea Introduction
- 2. Block Diagram
- 3. Hardware details
- 4. Process flow chart
- 5. Any other additional details
- 6. Approx Bill of Material (BOM) (Optional)
- 7. Authorization Letter from institute o(Format can be downloaded from https://community.arm.com/designing-and-modelling-of-iot-ai-ml-systems/p/the-in-ventors-challenge ----> Idea Submission)

1. Idea Introduction:

Estimation of the fish growth is manual and there is no connection between the fish growth and fish feed. As per the fish feed, the farmer would like to know the size of the fish he can produce. Our technique describes the fish size. For estimation of fish growth, we will create different data sets of fish with variable sizes. By using the CNN algorithm we shall train the data sets and the output is sent to the camera. Thus Fish growth can be detected. A similar procedure is done for fish health to detect any skin color changes and the prediction of diseases in fish.

2. Block Diagram:



3. Hardware details:

Microcontroller Board:-

STM32H747I-DISCO,

Camera Module:-

B-CAMS-OMV,

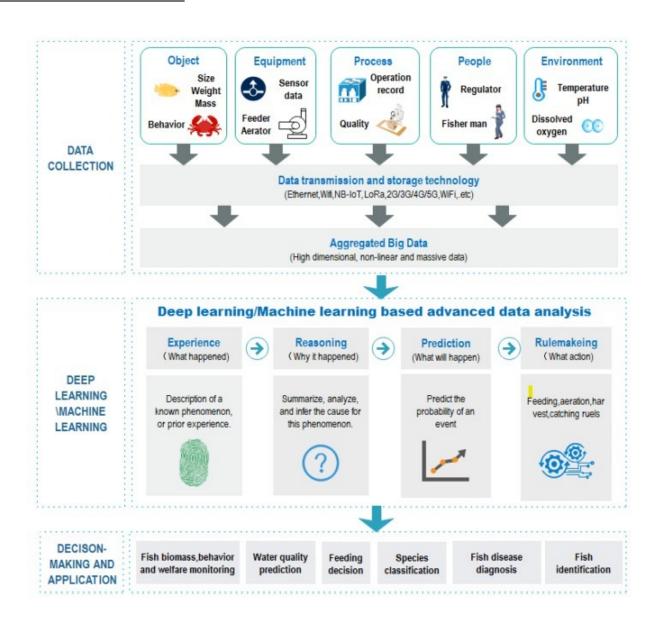
Connectivity Board:

(ESP_X_BOARD X-Nucleo-BNRG2A1) *2

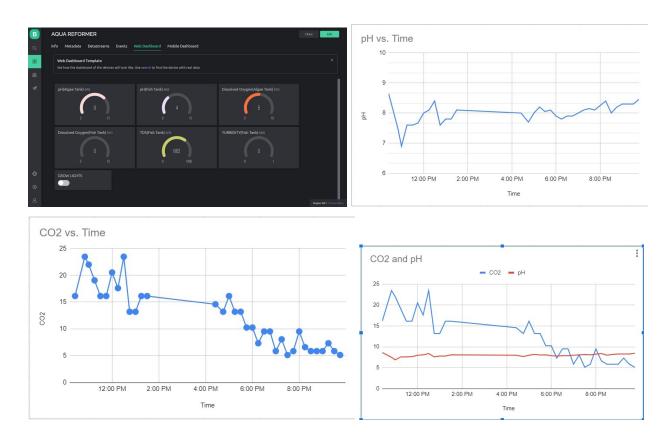
Sensor Board (Any One):-

X-NUCLEO-IKS02A1

4. Process Flow Chart:



5. Any other Additional Details:



6. Approx Bill of Material (BOM) (Optional):

7. Authorization Letter from the Institute:

Authorization letter for participation in "The Inventors Challenge 2022"

(To be obtained in Institute letter head from any of the institute authorities-HoD/Principal/Dean/Director)

To whom so ever it may concern

Subject: Authorization of Participants for "The Inventors Challenge 2022" jointly organized by All India Council for Technical Education (AICTE), Arm Education and ST Microelectronics.

I hereby certify/authorize that the below listed faculty and students are enrolled in Hyderabad institute of technology and management.

1	-
a	Padmajap. Csc @ hitamorg

Students' Name	Degree	Current	E-mail	Department
1. L. Goathika	01	Year/Semester		
	Blech		2005100 h40@ hitamora	CSE
3. Sainath Reddy	Btech	2-2	2005190539@Hitamos	CSE
4. G. YLMOVED	Blech	2-2	2005100541@ Hitaming	CSA
A. G. YUVOYCOT	Btack	5-5	ywarcj.golcephiinnovations	ISM

eidea: Fish growth and health prediction using ML and Iot.

Abstract of the Idea:

Name: J. Greethilea

Signature: J. Greethilea.

Assistant Director Doing

HoD/Principal/ Dean/Qirector