

Ball Tracking:

Tracking color of the ball with webcam in Python programming using OpenCV algorithm.

Environmental Mapping:

Mapping an environment with Ultrasonic sensor connected with Arduino controller and 180 degree of mapping output displayed with MATLAB.

Natural Language Programming with python:

Natural language processing (NLP) in python made human languages using the word cloud to develop the image logo like Artificial Intelligence.

Object detection in Python (Artificial Intelligence):

Using deep learning technique, TensorFlow and OpenCV algorithm to developed the webcam-based object detection similar to artificial intelligence in python.

ROS(Robot Operating System):

Developing a ROS node for the LIDAR sensor for visual indoor mapping using MATLAB

Ultrasonic Distance Measurement:

Measuring the distance using the ultrasonic sensor connected to Arduino controller output of visual distance displayed in python using vPython tool.

Speech to text conversation:

Converting the speech to text in Python using speech recognition tool.

Ultrasonic door bell:

Using Arduino controller and Ultrasonic sensor made the doorbell, when someone close to the threshold value. It play the sound from the mp3 module which contain the stored music in the SD card.