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Department : Computer Engineering
Discipline : BE
Semester : Semester 8

PPR Details

Periodic Progress Report : First PPR

Project : Smart RC Car

Status : Reviewed

1. What Progress you have made in the Project ?

-> Connected distance sensor -> Program to detect distance form raspberry pi -> Installed Mniconda on laptop -> Created an client side and an server side program to send data to and from raspberry pi to pc

2. What challenge you have faced ?

->soldering was something new ->learned about python ->learning about miniconda platform

3. What support you need ?

-> need to learn about OpenCV

4. Which literature you have referred ?

Learned mostly form website like :- -> <https://tutorials-raspberrypi.com/raspberry-pi-ultrasonic-sensor-hc-sr04/> -> <https://www.modmypi.com/blog/hc-sr04-ultrasonic-range-sensor-on-the-raspberry-pi> -> <https://docs.conda.io/en/latest/miniconda.html> -> <https://www.anaconda.com/python-3-7-package-build-out-miniconda-release/>

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PPR Details

Periodic Progress Report : Second PPR

Project : Smart RC Car

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1. What Progress you have made in the Project ?

-> Connected camera and moter driver -> program to send live video to pc -> saving frames as per click event

2. What challenge you have faced ?

-> Socket for distance sensor and video programmed differently -> Integrating distance sensor to camera program

3. What support you need ?

-> learning about pygames to detect click event

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PPR Details

Periodic Progress Report : Third PPR

Project : Smart RC Car

Status : Reviewed

1. What Progress you have made in the Project ?

Saving driving data in PC Saving data in machine learning friendly form Model training program
Learning about OpenCV ML Library

2. What challenge you have faced ?

Need to understand working of OpenCV ML Driving instruction to be parallel with saving data

3. What support you need ?

improving accuracy even by giving less data

4. Which literature you have referred ?

Referred manual book of OpenCV And other Website visited are:-

https://physics.nyu.edu/grierlab/manuals/opencv/ml_8hpp.html

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After collecting Training data The Data is then send to model training Program The Neural Nodes are generated on the bases of image frames So that prediction can be made when in self driving mode

2. What challenge you have faced ?

The percentage of accuracy is hard to improve after 50% It simply need a loot of data

3. What support you need ?

Need to Understand OpenCV Machine Learning Library to make change in Program so accuracy can be improved

4. Which literature you have referred ?

Mostly Online Websites and Video Lectures on OpenCV and Python :- 1. https://opencv-python-tutroals.readthedocs.io/en/latest/py_tutorials/py_setup/py_intro/py_intro.html#intro 2. <https://www.youtube.com/channel/UCfzlCWGWYyIQ0aLC5w48gBQ>

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Semester : Semester 8

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