COMPUTER VISION PROJECT

INTRODUCING DEEP LEARNING IN COMPUTER SCIENCE



INTRODUCTION OF COMPUTER VISION

BASED ON MY EXPERIENCE IN THE RET, I CHOSE TO USE THE FOLLOWING TOPICS IN MY CLASS:

1. DEEP LEARNING & NEURAL NETWORKS
2. AUTONOMOUS CARS
3. CROWD COUNTING

AUTONOMOUS CAR PRESENTATION

OBJECTIVE: STUDENTS WILL RESEARCH THE AUTONOMOUS CAR AND EXPLORE THE DEEP LEARNING ASPECTS THAT HELP RUN THE VEHICLE.



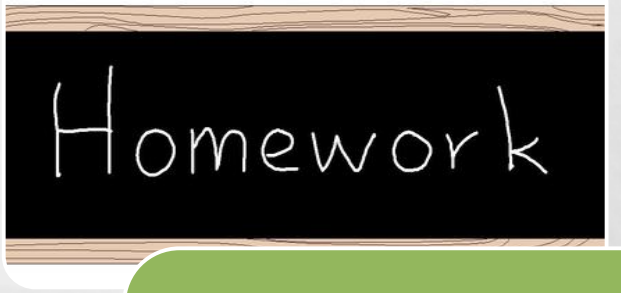
In Canvas, under announcements

Go to today's announcement and click on the link for the KWL chart.

https://realtimeboard.com/app/board/o9J_kzBnKVc=/



Create an algorithm on the self-driving car



Questions on video: How do self-driving cars actually work?

CROWD COUNTING PRESENTATION

DAY 1

CLASS ACTIVITY

HOW MANY PEOPLE ARE IN THE CROWD?

LECTURE:

DIFFERENT METHODS OF CROWD COUNTING: JACOBS METHOD

HOMEWORK:

INFOGRAPHIC DESIGN ON PICTURE TAKEN OF CROWD WITHIN SCHOOL WITH DETAILS OF CROWD SIZE DETERMINATION

DAY 2

CLASS ACTIVITY

1. WRITE A PSEUDO CODE BASED ON YOUR DETAILS OR STEPS OF CROWD SIZE DETERMINATION.
2. INSERT PICTURE OF CROWD INTO UCF CS WEBSITE CREATED BY GRADUATE STUDENT.
3. EXPLAIN HOW UCF IS EXPANDING ON THE DEEP LEARNING OF NEURAL NETWORKS TO IDENTIFY THE SIZE OF CROWDS IN AN IMAGE.