

PROJECT

Submitted by : Anusree I

Area of Project : Deep Learning

Topic : Pedestrian Detection using Deep Learning Model

Guide : Ms. Geethu P C

About project:

A autonomous vehicle is a vehicle which can able to navigate without human input and can travel to the predetermined destination over roads. These vehicles are capable of sensing lanes, pedestrians and objects on the road for the smooth navigation without human input. Pedestrian detection remains an important task in the theory research and practical application of objects detection. The objective of this project is to develop an pedestrian detection system using You Only Look Once (YOLO) neural-network-based model, capable of performing bounding box predictions present on a driving session. YOLO scans the complete image at once instead of concentrating at only a generated region proposal as in R-CNN, Fast R-CNN & Faster R-CNN algorithms.. YOLO operates directly on images while treating object detection as regression instead of classification.

Publications :

- Paper - Study on pedestrian detection
Conference - ICICT 2018
Journal - IEEE
Status - Presented
- Paper - Performance study of object detection models
Conference - ICECCT 2019
Journal - IEEE
Status - Accepted