

CSE4088

Introduction to Machine Learning

-Project Plan-

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OBJECT DETECTION SYSTEM FOR VEHICLES

Abstract:

In this project, we will build an object detection system which detects the types of vehicles like motorcycle, automobile, tractor, truck, scooter etc from images. This system might be used to detect the type of vehicle in the entrances that have barriers like parking garage, toll roads etc. When a vehicle comes to the entrance barrier and stops, after that the system will detect the type of the vehicle by shooting a photo. To implement this project, we will use Python as our main programming language.

Project Schedule: (Subtask Name & Due Date)

- Making Initial Literature Search – 04.11.2022
- Finding/Creating a dataset - 11.11.2022
- Determining the library and reading its documentation. – 14.11.2022
- Writing a mid-term report - 02.12.2022
- Completing the project – 07.01.2023
- Writing a final project report - 11.01.2023
- Presenting the project in class - 15.01.2023

List of References:

- <https://paperswithcode.com/task/object-detection>
- <https://docs.opencv.org/>
- Python Machine Learning: Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow, Sebastian Raschka and Vahid Mirjalili.