

Neural Networks Project 2 Proposal

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Motivation:

The use of neural networks to solve real world problems has always been interesting to us, parking spot detection is a common problem that occurs almost every day and affects many. The motivation of this project is to improve on the original problem and develop an efficient and accurate neural network that can be used to aide in the development of my Senior Design .

Goal:

The project will be done using a Convolutional Neural Network. In the previous project the focus was to identify if there are available spots in a parking lot or if there were no available spots. This project will focus on identifying if an individual parking space is empty or occupied. The aim will be to place images from a dataset in either class empty or class full. The dataset being used was collected from Kaggle; it contains 3262 images with a resolution of 1296 x 972. One thousand and sixty-seven images are of free parking spaces and the remaining images are of occupied spaces. All images in this dataset were taken from the same angle. Link to

Dataset: <https://www.kaggle.com/daggysheep/find-a-car-park>

Expected Outcome: Report including code implementation, output from code, report of findings and conclusion.

