SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

Department of Computer Science and Engineering

Certificate

Certified that the project work entitled "**Smart parking system to detect car and parking slots in open spaces**" carried out by **Amogh N Kulkarni (1SG13CS128), Madhusudan K (1SG14CS411), Preetham Reddy G (1SG13CS074), Supreeth K (1SG13CS116)** bonafide students of **Sapthagiri College of Engineering**, in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2016-17**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of Project work (10CS85) prescribed for the said degree.

Signature of the Guide

Mrs. Kamalakshi Naganna

Associate Professor

Signature of the HOD

Dr. Prashanth C.M.

Professor & Head

Signature of the Principal

Dr. Aswatha Kumar M

Principal
SAPTHAGIRI COLLEGE OF ENGINEE
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

Name of the Examiners

1. ....

2 ....

Signature with date

1. ....

2. ....

ABSTRACT

The problem of parking lot in urban areas has become a rampant one due to the increasing population. This happens as the cars increase in number but the parking space remains constant. The proposed application that detects the car and empty parking slots in open space. The application reads the training dataset and extracts features from the images which are used to train the support vector machine algorithm which is used for classification of images. The application is given a test dataset which process the images in the same way as that of training dataset, extract the features and classify the images accordingly.