



# Charith Thirumalasetty

Graduate from Indian Institute of Information Technology

## About Me

I am an Engineering graduate from Indian Institute of Information Technology. I am a problem solver and an out and out techie; passionate about new technologies and their application.

## Projects

### Design and Optimization of Microstrip Patch Reflect array using Machine Learning Algorithms and Techniques.

Jan 2021 - Dec

2021

Implemented a design procedure where an artificial neural network model is used to compute the design parameters of each element from the required phase values of them for a reflect array antenna model with square patches.

### Drug Consumption Analysis.

2020

Worked on the UCI Drug dataset to classify types of drug consumers and predict the risk of drug consumption for each individual.

### Automatic Car Parking System.

2020

This system Allots a free parking slot and steer the vehicle to an available parking spot. Generates a path to the slot and travels according to it. It also controls the velocity of the vehicle in order to prevent accidents.

### Smart helmet

2019

The main purpose of this helmet is to provide safety to the rider. It can be implemented via advanced features such as alcohol detection, accident detection, location tracking, and fall detection. Wearing a helmet is mandatory. You cannot turn on the ignition switch without wearing a helmet.

## Certificates and Awards

- Volunteered in Marathon-2020 at Sri city.
- National Service Scheme Core member 2021-22.
- National Service Scheme Volunteer in IIIT Sri City.
- MatLab Onramp @MathWork.
- Goldman Sachs - Completed Engineering Virtual Program.
- PRATIBHA AWARD 2016 for excellence in SSC-Examination-2016.
- Secured First place in Elocution during the academic year 2014-15.
- Taken part in the sponsored event on 13-11-14 and raised funds for the welfare of the visually challenged children.

## Contact



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Nellore

## Education

B.TECH ,  
Electronics and Communications  
Engineering  
IIIT Sri City, Chittoor. 2018-22

XI-XII:  
Narayana jr college Nellore  
2016-18

VIII-X:  
St-Francis High School 2013-16

## Programming Languages

Python, C, HTML, CSS,  
MatLab.

## Tools

PC1D, GIS, Matlab, LTspice,  
Logisim, Electric, Arduino ide.

## Hobbies

Playing Badminton, Cycling,  
Painting.