

Sarath Krishnan

www.sarathkrishnan.in

sarath.krishnan553@gmail.com

Mob :(+91)9965988502

Objective:

Seeking opportunities as a full time computer science engineer where I can utilize both my technical and interpersonal skills for the organization's growth.

Educational Qualification:

Name of Institution	Course	University or Examination board	Year	CGPA
Amrita School of Engineering, Coimbatore	M.Tech(Computer Vision and Image Processing)	Amrita Vishwa Vidyapeetham, Coimbatore	2017	8.45
Dr.NGP Institute of Technology, Coimbatore	B.E. (Electronics and Communication Engineering)	Anna University,Chennai	2015	7.03

Academic Achievements:

Amrita University Dean Scholar and attained a scholarship of rupees 30000 for academic excellence during the year 2016-2017.

Professional Experience:

Position	Company	Duration	Description
Intern	Pricol Technologies	Dec 2016-Feb 2017	To Develop software for designing digital Display panels in automobiles.
Intern	HCL Technologies	March 2017-July 2017	1)Dewarping of Historically distorted Camera Document Images and retrieval of contents from a fully distorted Image. 2)Automatic Orientation and skew correction of scale invariant historical and camera document images in an efficient manner

Area of Interest:

- Data Structures and Algorithms
- Application programming with a focus on Image and Video Processing
- Pattern recognition and machine learning applications

Programming Languages/Tools Known:

- C and C++
- Java
- MATLAB
- Xilinx ISE for embedded programming using Verilog

- OpenCV

Personal Strengths:

- Team Player, Calm & Patient, Creative, Logical Thinking, Quick Learner & having Good Communication Skills.

Project/Papers Published:

- **An Efficient Algorithm for Removing the Effect of Fog on Digital Color Images**(Submitted to Journal of Engineering Science and Technology(JESTEC), Taylor's University)& **Enhanced Defogging System on digital color images**(Submitted to an International Conference and will be published on SPRINGER)

Degrading of images can be caused due to the weather condition such as fog, mist. Fog can also be considered as a type of noise that creates difficulties both in image enhancement and computer vision problems. Developing an algorithm that could detect the foggy images and performing the designed algorithm to obtain an enhanced image. The program was implemented using MATLAB 2015a.

- **Feature Ranking Procedure for Automatic Feature Extraction.**(SCOPES 2016 will be published soon in IEEE XPLORE Digital Library)

Feature selection is considered as a very important work in all machine vision/pattern recognition applications. There are scenarios where classifier wrongly classifies. Implementation of this algorithm reduced the complexity of the classifier during classification by recognizing the most important features between classes by using some of the statistical calculations. The program was implemented using MATLAB GUI toolbox.

- **Obstacle Detection Robot with Speed Booster**(First year M.Tech)

Built a robot using Lego Mindstorm with an ultrasonic sensor placed on the top to detect obstacles that comes in front of the robot, then the robot chooses a different path. The speed of the robot can be increased drastically by making some sound which is detected using a sound sensor and dc motor runs faster to some duration. The whole program is done by using NXT software.

- **Automatic Fetal cardiac events using Hidden Semi Markov Model**(B.Tech Final Yr.)

We developed an automatic marking of fetal cardiac events such as aorta opening, mitral opening, aorta closing and mitral closing using Hidden Semi Markov Model. It can be used for better diagnosis of fetus. The project is accomplished by the support of **Kovai Medical Center and Hospital(KMCH)**, Coimbatore. The whole program is done by using MATLAB 2013b

This project has won third prize in an intra-college project fair held at Dr.N.G.P Institute of Technology, Coimbatore.

Interest & Hobbies:

- Discussing and debating on general topics from technology & current affairs to movies and music.
- Love to travel.
- Avid football fan.

Personal Details:

DOB: 29/04/1994 Nationality: INDIAN Gender: MALE Father's Name: Krishnan V Mother's Name: Sajitha V S	Permanent Address: "Aswathy", Dayanandha Street, Karnaki Nagar, Palakkad, Kerala-678012 Phone:0491-2541911	Languages Known: English, Malayalam, Tamil Class X CBSE 80.20% Class XII CBSE 57.00%
--	---	--

