





Sarthak S Kumar

Student

 sarthakskumar.github.io

 sarthakskumar

 SarthakSKumar

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About Me

I'm Sarthak, an 18-year-old pursuing B.Tech in Computer Science from PES University, Bangalore. I am a passionate self-learner and an open-source enthusiast. I love exploring and building projects using various technologies. Inspired by innovation and technology, I actively look for opportunities to develop my skillset and use it to solve challenging real-world problems. Expanding my network, teaching, and building a collaborative environment to grow together, are among the few things that spur my interest. I conduct workshops, events, and collaborative programs in science, innovation, computers, entrepreneurship, etc.

Languages

English

Kannada

Tulu

Hindi

EXPERIENCES

MARCH 2022

GSSOC '22

Open Source Contributor

FEB 2022

CODING NINJAS

Ninja Entrepreneur

MAY 2021

BLIX ROBOTIX

Freelancing Boffin Builder

MAY 2021

FUSION

Founder @ Fusion

EDUCATION

6TH GRADE

MANIPAL SCHOOL

MANGALORE
2015

12TH GRADE

EXPERT PU COLLEGE

MANGALORE
2021



3RD GRADE

BEARYS PUBLIC SCHOOL

MANGALORE
2012

10TH GRADE

SHARADA VIDYANIKETHANA

MANGALORE
2019

B.TECH CSE

PES UNIVERSITY

BANGALORE
2021

SKILLSET

HTML

JAVA

C++

EMBEDDED C

CSS

MATLAB

SQL

C

PYTHON

ARDUINO

RASPBERRY PI

FRITZING

GIT

GITHUB

VS CODE

AUTODESK EAGLE

INTERESTS

- INNOVATION
- ROBOTICS
- COMPUTERS & TECH
- ALGORITHMS
- CAD
- PUBLIC SPEAKING
- PROJECTS
- ETHICAL HACKING
- TEACHING
- AI
- ENTREPRENEURSHIP
- RESEARCH
- 3D MODELLING
- PROGRAMMING

PROJECTS

DEC 2021 - PRESENT

SOLVING CONSTRAINT SATISFACTION PROBLEMS USING RAT

✂ Rat in a maze ✂ Sudoku

We are using backtracking to find the most feasible solution to the above problems. We are also working on the UI, which will enable the user to interact with the program more effectively. We are including a facility to let the user solve these problems, by a manual approach, but also let him allow the computer to solve it too.

AUG 2019 - OCT 2020

AGRIBOT PROTOTYPE 1

AgriBot 1.0 is a prototype locomotive that collects soil moisture, temperature, and humidity readings from different areas of the field and provides suitable information to a farmer regarding crop choice and growth.

APR 2019

I-CITY MANGALURU APP

An app based on the theme "Smart City". This app basically includes components and facilities which favor the smooth functioning of an ideal city.

MAR 2018 - DEC 2018

PROTOTYPICAL AGRICULTURE SYSTEM

A model representation of an Interface that coordinates with incorporated technology which is currently being used in other sectors, into the field of Agriculture, to provide smart guidance to a farmer for a successful yield and execute their agrarian cycle with ease.

AUG 2017 - MAR 2018

SWACHH BIN PROTOTYPE 1

Swachh Bin 1.0 is a prototype dustbin that can be kept in a vehicle. It is a unique bin as it can compress waste added to it and make space for more waste to be added.

SEP 2016 - OCT 2016

IDEAL HOME SECURITY SYSTEM

At the present time, home and office security is becoming very important. In our absence, these places are not secure. To make these places secure, we have come up with an all-in-one home security system with phone control and live streaming agility.

This product was pitched in Innoventure 2017, a National level Entrepreneurship Challenge organized by Intelligence Plus, at Pune, Maharashtra, India, in the year 2017.

This project was presented at the district level Jnana Vidjana Mela held in August 2016 and selected for the state level.

VOLUNTEERING

FEB 2022

IEEE COMPUTER SOCIETY PES UNIVERSITY

Member

JAN 2022

IEEE RAS PES UNIVERSITY

Community Group Member

MARCH 2022

GITHUB DEVELOPER PROGRAM

Member

JAN 2022

SHUNYA CLUB PES

PESU ECC Core, Design Team, Marketing Team, Event Management Team

JAN 2022

GOOGLE DSC PESU ECC

Member

APR 2016 - JUL 2018

SWACHH BHARAT ABHIYAN

Student Volunteer