



D BAVATH

DEVELOPER

VISION

Extremely motivated to develop my technical skills and grow professionally. Confident in the ability to do and to come up with interesting ideas to solve the problems with the knowledge which I pursue day by day.

EDUCATION

2019-2021 M.Sc Physics	KARPAGAM ACADEMY OF HIGHER EDUCATION Graduated with the percentile of 72% with the development of project in virtual measurement framework
2016 - 2019 B.Sc Physics	SNR SONS COLLEGE Received a Bachelor of Science degree in Physics with a focus on Research and Development in Bio Sensors - Graduated with percentile of 68% First class
2014 - 2016 AISSCE	KENDRIYA VIDYALAYA SULUR, COIMBATORE Class 12th Science and Mathematics Stream (CBSE) - Secured 78% in All India Senior School Certificate Examination
2011 - 2014 AISSE	KENDRIYA VIDYALAYA SULUR, COIMBATORE Class 10th - Scored 9.2 CGPA in All India Secondary (CBSE) School Examination Board

EXPERIENCE

Jan, 2021- Present Python Developer	FREE LANCING Python projects based on Tensorflow, OpenCV and IoT.
2019 - 2020 Firmware Developer	CINDAN, COIMBATORE Worked as a partime django and firmware engineer supporting their IoT Based Products
2017(JUNE) Internship	FORGE ACCELERATOR, COIMBATORE Participated in sector-based ThinkTanks and developed the problems discussed by experts into Problem Briefs Learned to use 3D Printer, Bootloaders and Development boards Contributed to the Problem Brief developed by other members of Program Task Force through peer-review meetings.

CONTACT ME

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SKILLS

PYTHON LANGUAGE	<div></div>
NODE JS	<div></div>
IMAGE PROCESSING & DATA ANALYSIS	<div></div>
INTERNET OF THINGS	<div></div>
ARDUINO & RASPBERRY PI	<div></div>
EMBEDDED SYSTEMS & SENSOR	<div></div>
RESEARCH AND DEVELOPEMENT	<div></div>

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PROJECTS

■ Agriculture Disease Detection Rover	CNN Based UGV made to detect the types of pest on leaf using Opencv and Tensorflow framework
■ Agriculture Pest Prediction System	Machine Learning based Intergrated Sensor Environment to predict the upcoming pest attack
■ Room Air quality Measurement System	Comparison Based technology which compares the air quality of the room based on outer surrounding using Sensors
■ Algal Photo Bio Reactor for BioFuel Synthesis	Developed Photo BioReactor for Algae growth and extraction of Biofuel
■ Image processing based Plastic Color Sorting Machine	Raspberrypi and Pi Cam Intergrated with OpenCV framework for Color Sorting of plastics
■ Live Energy monitoring System	IoT Based Live Home Electricity Monitoring device intergrated with SMS API
■ Body Pose Detection Framework for yoga	Tensorflow Posenet Model based yoga posture detection
■ Automated Human Temperature and Pulse Monitoring Systems	Face detection model to fix the center of face and detect the temperature and pulse monitoring system
■ Image Based Measurement System for size monitoring	openCV Based object size measurement using Camera
■ Automated soil Nutrients and moisture monitoring and supply system using Mesh Network	Two conductor are made to experience all sort of condition and made to learn various soil condition with the help of Machine Learning
■ IoT based Invertor Battery Energy level Monitoring	Basic voltage and amps measurement device for monitoring battery energy level and finally displayed in the dashboard
■ Live Weather Monitoring System	Simple integration of all the sensors to measure the various environmental factors

ADMINISTRATIONS

■ School Pupil Leader (2014-2016)	Kendriya Vidyalaya, Sulur, Coimbatore, Tamil Nadu
■ Parade Commander (2014 -2016)	Kendriya Vidyalaya, Sulur, Coimbatore, Tamil Nadu
■ President, E-CELL (2016-2017)	SNR Sons College, Coimbatore, Tamil Nadu
■ Cultural Sergeant, NCC (2017-2019)	SNR Sons College, Coimbatore, Tamil Nadu
■ Secretary, E-CELL (2017-2019)	SNR Sons College, Coimbatore, Tamil Nadu
■ Student Coordinator (2017-2019)	MoE (Formerly MHRD) IIC, Sri Ramakrishna College of Arts and Science, Coimbatore, Tamil Nadu

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ACHIEVEMENTS& AWARDS

1. Patented Wireless ECG Node on 2020

2. Secured first in paper presentation at NIT Trichy presenting about Anti Gravity wheel

3. Participated in State Level Physics Symposium and received Second in JAM event

4. Presented paper on NEMS technology and received first held at Sasuire Institute

5.Received Special recognition award for making Planetarium at SNR Sons College

6. Received Ceritificate of excellence as Social Media Coordinator at SNR Sons College

7. Received Young Scientist Award of Department of Physics, SNR Sons College

8. Top 10 innovators in Tamilnadu Startup Activation Program counducted by Forge and Entreprenuership Development Institute - TamilNadu

9. President of Entreprenuership Development Cell of SNR Sons College

10. Pride of the Department, awarded by Dept. of Physics, SNR Sons College
- National Level Achievement

Participated in Republic Day Camp NCC held on 26th jan 2018 as a NCC cadet

AREA OF INTEREST

- Artificial Intelligence

■ Research and Development

■ Machine Learning

■ Embedded systems and Sensor technology

■ Image Processing

■ Internet of Things

TRAINING

- Swarm Robotics(2017)

Amirtha University, Kollam, KL

■ Agri Think Tank(2017)

Forge Acceleration, Coimbatore with the collaberation of TN Agri Dept.

■ Boot Camp(2017)

Organised by Forge Acceleration Center for Top-12 Innovators of Tamil Nadu in rapid prototyping and problem solving.

DECLARATION

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Date: 14.07.2021

Place: Coimbatore

PERSONAL INFORMATION

Date of Birth : 08.01.1999

Language Skills

English

Hindi

Tamil

Malayalam

REFERENCES

Lt. Dr. KP SRIDHAR

DIRECTOR (R&D)

KARPAGAM ACADEMY OF HIGHER EDUCATION

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