

Anirudh N Bharadwaj

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📍 Karnataka, Bengaluru, India

🌐 Anirudh N Bharadwaj

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PROJECTS

SRDSS: SMART REGENERATIVE DECELERATION AND SAFETY SYSTEM USING IOT IN ELECTRIC VEHICLE

- Engineered a regenerative deceleration and obstacle avoidance system for enhanced electric vehicle performance.

LI-FI NET: ADVANCED MULTIMEDIA INFORMATION TRANSMISSION USING DEVICE CONTROL

- Orchestrated a multimedia information transmission system with integrated device control capabilities using Light Fidelity.

SLRNG: SMART DOOR LOCK USING RANDOM NUMBER GENERATOR, S J B Institute of Technology

- Fortified home security through the implementation of a Bluetooth-based Smart Door Lock with a Random Number Generator.

SASS: SMART AGRICULTURAL SURVEILLANCE SYSTEM USING IoT IN UAV, S J B Institute of Technology

- Cultivated agricultural efficiency with a UAV-based Smart Agricultural Surveillance System integrating IoT for precision farming optimization.

MASTER VOLUME CONTROL OF PERSONEL COMPUTER USING HAND GESTURE

- Implemented gesture-controlled accessibility feature for adjusting personal computer's master volume.

SIGHTSENSE: A DATA DRIVEN APPROACH TOWARDS ANALYZING OCULAR MOVEMENTS, Cyclops Medtech

- Developed a data-driven approach for real-time analysis of ocular movements in the healthcare domain

DIZZY DIALOGUE, Cyclops Medtech

- Worked on a GUI interface integrated with an advanced chatbot to assist doctors in vertigo and vestibular diagnosis.

AN ADVANCED AUDIOMETRY SOFTWARE SOLUTION, Indi-Hearing Aid

- Designed and developed cutting-edge audiometry software for precise hearing assessments and detailed analysis.

PORTFOLIO WEBSITE

- Crafted a personal portfolio website as a dynamic showcase of projects and skills, serving as a comprehensive online resume.

PROFESSIONAL EXPERIENCE

Computer Vision Engineer, Equidor Medtech

Project: **EquiCOG**

Cranio-Oculography is a new age advanced Video-Nystagmography solution with head tracking and eye-tracking at 120 frames per second respectively.

- Developed a state-of-the-art eye-tracker with conventional OpenCV techniques using Python and C++.
- Working on Detection of Torsional Component of the eye.

02/2024 – present
Bangalore, India

Computer Vision Consultant, Freelance

Research and development of new-age Vestibular Solutions for the detection of dizziness and balance disorders.

11/2023 – 02/2024
Bangalore, India

Junior Computer Vision Consultant, Cyclops Medtech

Worked on optimizing and R&D of a comprehensive state-of-the-art eye-tracking engine.

06/2022 – 11/2023
Bengaluru, India

Data Science and Computer Vision - Research Intern, Cyclops Medtech

- As a research Intern, I engaged in actively developing my skills in utilizing popular computer vision and data science tools such as Python, Pandas, Numpy, Plotting Libraries, SciPy, OpenCV.
- Contributed towards analyzing real-time ocular movement dataset and came up with valuable insights.

09/2022 – 06/2023
Bangalore, India

EDUCATION

B.Engg - Electronics and Communication,

S J B Institute of Technology

2019 – 2023 | Bengaluru, India

Affiliated to Visvesvaraya Technological University (VTU)

7.69 CGPA

Pre - University (Physics, Chemistry, Math, Computer Science), Sri Ramakrishna Vidyashala

2018 – 2019 | Mysuru, India

PU Board, Karnataka

87.5%

Secondary School Leaving Certificate (10th),

Sri Ramakrishna Vidyashala

2016 – 2017 | Mysuru, India

Karnataka Secondary Education Examination Board

83.68%

SKILLS

Python • Computer Vision • Data Science •
Machine Learning • Internet of Things • C++

PUBLICATIONS

SRDSS: SMART REGENERATIVE DECELERATION AND SAFETY SYSTEM USING IoT IN ELECTRIC VEHICLE, IEEE XPLORE

07/15/2022

- The proposed regenerative deceleration system is designed to conserve the energy of the battery to enhance EV mileage.
- Integrated obstacle avoidance for increased passenger safety using sensory information from IoT.

TEST SCORES

Test of English as Foreign Language (TOEFL)

R - 23; L - 27; S - 22; W - 27;

CERTIFICATES

Deep Learning using Medical Data: Finland Labs

Internet of Things using Raspberry Pi: Finland Labs

IoT using Amazon AWS: Finland Labs

AREA OF INTEREST

Computer Vision | Medical Image Analysis |

Digital Image Processing | Artificial Intelligence | Deep Learning

AWARDS AND ACCOMPLISHMENTS

- Held Secretary position in Student Council for Department of Computer Science at Sri Ramakrishna Vidyashala Pre-University.
- "Smartness" General Award recipient for exceptional achievements at Sri Ramakrishna Vidyashala Pre-University.
- Presented "**Detection of Upper Limb Movements in EEG Data** ☑ " poster on Sep 30, 2021, at Sapthagiri College of Engineering event with IETE Bangalore.
- Presented "**SRDSS: Smart Regenerative Deceleration and Safety System Using IoT in EV**" paper at **INCET, IEEE**, ☑ hosted by Jain College of Engineering, Belgaum.
- Awarded for Contributions to **Certificate Course in Assessment and Rehabilitation of Vertigo and Balance Disorders**, Department of Otorhinolaryngology - Head & Neck Surgery, Yenepoya Medical College(Deemed to be University), Mangaluru, India.