Anirudh N Bharadwaj

✉ anirudhbharadwaj13@gmail.com   📞 +91-9008511005   📍 Karnataka, Bengaluru, India   in Anirudh N Bharadwaj
🏴 AnirudhBharadwaj.github.io

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.

A FULL-FLEDGED EYE TRACKING MODEL, Cyclops Medtech
• Designed and developed an intricate eye tracking engine, enhancing the videonystagmography (VNG) performance.

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.

SKILLS

Python   •   Computer Vision   •   Data Science

Machine Learning   •   Internet of Things   •   C++

AREA OF INTEREST

Computer Vision | Medical Image Analysis

Digital Image Processing | Artificial Intelligence | Deep Learning

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%

TEST SCORES

Test of English as Foreign Language (TOEFL)

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

CERTIFICATES

3rd International Conference of Emerging Technologies ⧉

Deep Learning using Medical Data ⧉ *(Finland Labs)*

Internet of Things using Raspberry Pi ⧉ *(Finland Labs)*

IoT using Amazon AWS ⧉ *(Finland Labs)*

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.

PROFESSIONAL EXPERIENCE

Computer Vision Engineer, Cyclops Medtech ⧉
09/2022 – present | Bengaluru, India
Project Name: BalanceEYE
BalanceEYE is a revolutionary new age video-oculography (VOG) / video-nystagmography (VNG) solution/platform for comprehensive assessment of dizziness and balance disorders.
Tools used: Python, VSCode, NumPy, Pandas, OpenCV, GStreamer, Machine Vision, Linux, PyQt.

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.