VIVAN RAJATH NAGASANDRA H

Bangalore ,Karnataka

☎ +91-9482779290   ✉ vivanrajath999@gmail.com   ⚛ **Portfolio**   🖥 **Github**

Work Experience

Bharat Electronics Limited↗   **Aug 2023 – Sept 2023**

Intern   *Bangalore, Karnataka*

- **Internship at BEL:** Completed internship in the **Milcom SBU**, specializing in **military-grade equipment** for defense applications.

- Collaborated with cross-functional teams of 5+ members, enhancing communication skills across departments.

Siva Complete Solutions Pvt Ltd↗   **Sept 2024 – Feb 2025**

Trainee Developer   *Bangalore, Karnataka*

- Developed responsive websites and created backend tools to ensure smooth operations.
- Received the "**Progress Innovation Award**" for the tool, which helps users complete half a day's work in just 41 minutes.

EDUCATION

East West College of Engineering   **2020 – 2024**

Bachelor of Engineering (BE) in
Electronics and Communication Engineering - ***CGPA*** *-* ***7.32***   *Bangalore,Karnataka*

MES KISHORA KENDRA PU College   **2018 – 2020**

Class 12th Boards, Karnataka PU Board - ***Percentage*** *-* ***59%***   *Bangalore,Karnataka*

SCHOENSTATT ST MARYS HIGH SCHOOL   **2017 – 2018**

Class 10th Boards, Karnataka SSLC - ***Percentage − 78.56%***   *Bangalore,Karnataka*

PROJECTS

- **PIEZO POWER GENERATION SYSTEM :** Made a prototype of creating clean energy with Piezo Power by footsteps as our mini project

- **Object Sorting System using Machine Learning :** Created an Automated components Sorting System using SSD Mobilenet FPN 320 lite V2 Machine Learning Algorithm and Integrating it with ESP32 Microcontroller.

- **Portfolio Website** : Created a personal portfolio website using React js and deployed it to github and hosted it through Jenkins , github pages.

- **Image Gen Bot** : Utilized Hugging face stable diffuser model for image generation with prompt and used telegram bot as an interface to create images .

- **American Sign language Detection System** : Using MediaPipe with Neural networks and OpenCV created a American Sign Language Detection which detects realtime hand signals as ASL .

- **Netflix Clone** : Created a Netflix clone with Postgresql , Django frameworks.

- **SAR based Research** : To enhance my Computer Vision Expertise and Deep Learning , I managed to work around SAR and its Filtering Techniques.

- **Automating Blog Posting tool :** This is an Agentic AI tool that uses playwright automation tool and social media API's to actively post content and blogs automatically.

- **Braille encoder tool** : Used liblousie library and NLP to actively translate Webpages to Braille texts for blind people

Technical Skills

- *Python*
- *Flutter*
- *Django Frameworks*
- *Flask*

- *PostegreSQL*
- *Tensorflow*
- *C#*
- *Playwright, Selenium tools*

- *React js*
- *Javascript*
- *HTML , CSS , BS5*
- *Embedded C*

PROFESSIONAL COURSES

Full Stack Training | TAP Academy ⬏
Apr 2024 – Sep 2024 | Bangalore, Karnataka
- Mastering **Java, Spring Boot, Hibernate, HTML, CSS, JavaScript, SQL**
- Building and deploying **full-stack web applications** (integrating frontend and backend)
- Gaining hands-on experience with **Git, SQL , and Agile methodologies.**

RECOGNITION

- Showcased the prototype "**OBJECT SORTING USING MACHINE LEARNING**" at **IGNITRON National Project Exhibition** and participated in the **State Level Project Exhibition 'Srishti 2024'** at Atria Institute of Technology

- Synthesized our " **OBJECT SORTING USING MACHINE LEARNING** " prototype into a digestible research paper presented at **ICETSE-2024**; publication in **SCOPUS-indexed journal**.

- Crafted a visually compelling research poster of our project "**PIEZO POWER GENERATION SYSTEM**" for ARAMBH-2k24, synthesizing data into easily understandable charts, graphs, and concise textual explanations to enhance readability.

- Created an Automation tool for internal operations in **Siva Complete Solutions,** where I received "**Progress Innovation Award** ", This tool cut down half a days work within **41mins** for smooth operation.

HACKATHONS

AI X Spacetech Hackathon | GalaxEye
4th Place | [2024]

- *Developed a **Pix2Pix GAN** model to convert **SAR images to EO images**.*
- *Created a novel anomaly detection algorithm, **achieving 95% precision and 90% recall** within a 24-hour sprint as an undergraduate .*

PUBLICATIONS

"Multiple Electronic Component Sorting and Deployment on Edge Device using SSD MobileNet V2 FPN 320 Lite in Machine Learning"⬏
Grenze International Journal of Engineering and Technology, June issue – Vol-10

DECLARATION

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.

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