

# VIVAN RAJATH NAGASANDRA H

Bangalore ,Karnataka

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Portfolio

Github

## Work Experience

**Bharat Electronics Limited**

Intern

**Aug 2023 – Sept 2023**

*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**

Trainee Developer

**Sept 2024 – Feb 2025**

*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**

*Bachelor of Engineering (BE) in*

*Electronics and Communication Engineering - CGPA - 7.32*

**2020 – 2024**

*Bangalore, Karnataka*

**MES KISHORA KENDRA PU College**

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

**2018 – 2020**

*Bangalore, Karnataka*

**SCHOENSTATT ST MARYS HIGH SCHOOL**

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

**2017 – 2018**

*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 liblouis library and NLP to actively translate Webpages to Braille texts for blind people

## Technical Skills

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|--------------------|------------------------------|--------------------|
| - Python           | - Huggingface Tuning         | - React js         |
| - Machine Learning | - Tensorflow                 | - OpenCV           |
| - GANS             | - Pytorch                    | - HTML , CSS , BS5 |
| - RAGs             | - Playwright, Selenium tools | - Mediapipe        |

## PROFESSIONAL COURSES

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### 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

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- 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

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### **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

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"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

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

**Vivan Rajath Nagasandra H**

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