

SHARMILA SELVAM



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PROFESSIONAL SUMMARY

To obtain a challenging career in the field of Information and Technology with major responsibility that will effectively utilize my Technical, Leadership, Communication and Organization. Motivated a continuously learn emerging technologies and contribute to innovative and impactful software solution.

EDUCATION

PSNA College of Engineering & Technology | *B.E Biomedical Engineering* | *CGPA-8* 2021-2025
Ramsun's Matric Hr. Sec School | *HSC* | *Percentage- 88.5%* 2021
Ramsun's Matric Hr. Sec School | *SSLC* | *Percentage- 86.2%* 2019

SKILLS

- Programming skills
 - Soft Skills
- Java, SQL, HTML, CSS, JavaScript (Basics).
Communication, Adaptability, Problem Solving, Team Work.

PROJECT

IOT BASED PULSE SENSOR MONITOR |

Sep 2024- Oct 2024

- Engineered a real-time pulse rate monitoring system using Arduino and IoT.
- Integrated Flutter-based mobile application for real-time data visualization and automated emergency alert, improving response times to critical conditions by 40%.

WEATHER API

- Developed a real-time weather application using HTML, CSS and JavaScript. It integrated the Open Weather Map API to fetch and display key weather metrics.
- Enabling users to access up-to-date weather conditions based on location input, Improving information retrieval efficiency by 30%. Website link: [Weather App.](#)

EEG BASED EMOTIONAL RECOGNITION SYSTEM WITH REAL-TIME NEUROFEEDBACK FOR AUTISM SUPPORT

- Developed a system using EEG signal and a CNN model to classify emotional state (Happiness, Calm, Anxiety) in individuals with autism spectrum disorder. Integrated real-time EEG data and DEEP dataset for training. Applied FFT for feature extraction and implementation neurofeedback by triggering calming music upon detecting anxiety, promoting emotional regulation.

INTERNSHIP

INNOBYTE SERVICES

Dec 2024 – Jan 2025

- Gained hands-on experience in front-end web development during an internship by building responsive web application using HTML and CSS.
- Applied industry best practices while developing a Guest House Management Project.
- Website link: [Guest House.](#)

COURSEWORK

- Web development.
- Object oriented programming.