

SWAROOP

swaroopnairy@gmail.com | +91 8951240738

LinkedIn: Swaroop Nairy | GitHub: Swaroopnairy795

PROFILE

Computer Science and Engineering (Data Science) undergraduate with strong hands on experience in developing full stack applications, machine learning solutions, and cyber security based systems. Skilled in Python, Flask, React, databases, and data driven problem solving through real world academic and personal projects. Demonstrates practical expertise in building management systems, fraud detection models, and secure communication applications with user focused design. Passionate about applying data science and software engineering concepts to create efficient, scalable, and impactful technology solutions.

EDUCATION

Sahyadri College of Engineering and Management, Adyar, Mangalore

Bachelor of Engineering in Computer Science & Engineering (Data Science)

2022–2026

CGPA: 8.59

Viveka Pre University College, Kota, Udupi

State Board – PCMB: 87.83%

2020–2022

Government High School, Brahmavara, Udupi

State Board – SSLC: 89.92%

2017–2020

INTERNSHIP

Prinston Smart Engineers: Completed a Full Stack Web Development internship at Prinston Smart Engineers, gaining practical experience in MERN stack application development and real world software workflows. Developed a Chinese Restaurant Website featuring responsive UI design, authentication, menu management, reservations, orders, and admin dashboard functionalities. Strengthened skills in React, Node.js, Express.js, MongoDB, and REST API integration through end to end frontend and backend implementation. [Link](#)

PROJECTS

- **Digital Beedi Branch Management System:** Developed a Digital Beedi Branch Management System using Python, Flask, SQL, and Bootstrap to automate daily branch operations efficiently. The system manages worker attendance, production records, wage calculations, and inventory tracking through an integrated and structured workflow. Designed a simple and user friendly interface tailored for low literacy users, improving operational accuracy, transparency, and overall management efficiency. [Link](#)
- **Credit Card Fraud Detection:** Built a Credit Card Fraud Detection system using Python, Flask, and machine learning algorithms to identify fraudulent transactions from uploaded transaction datasets. Implemented data pre-processing, model training, and prediction modules to analyze transaction patterns and detect anomalies effectively. Developed a simple web interface using HTML and CSS that enables users to upload transaction files and receive real time fraud detection results. [Link](#)
- **Gym Membership Management System:** Developed a Gym Membership Management System using Python, Flask, and MongoDB to efficiently manage member records and membership plans. Implemented complete CRUD operations allowing administrators to create, view, update, and delete member information through a structured database system. Designed a responsive web interface using HTML and CSS to simplify membership handling, improve data organization, and enhance overall administrative efficiency. [Link](#)
- **Secure Communication and Intrusion Detection System:** Developed a Secure Communication and Intrusion Detection System using Python, Flask, and Scapy to ensure safe data exchange between client and server through encryption techniques. Implemented packet sniffing and ARP spoofing detection mechanisms to monitor network activities and identify potential security threats in real time. Designed a web-based interface using HTML and CSS to display alerts, enhance network visibility, and strengthen overall system security. [Link](#)
- **Chinese Restaurant Website:** Developed a Chinese Restaurant Website during internship at Prinston Smart Engineers using MERN stack technologies, contributing to full stack system design, frontend development, and backend API integration. Built responsive modules including Login, Register, Menu, Cart, Checkout, Reservation, Orders, Reviews, and Admin Dashboard with secure authentication and session management. Implemented RESTful backend services using Node.js, Express.js, and MongoDB to handle user management, orders, reservations, and total revenues with seamless frontend backend communication. [Link](#)

TECHNICAL SKILLS

- **Software Languages:** Python, C, Java, HTML, CSS, JavaScript
- **Frameworks/Tools/Databases:** Flask, Bootstrap, Pandas, MongoDB, SQLite, LaTeX, Excel, GitHub, React.js
- **Certifications:**
 1. Natural Language Processing Projects (Great Learning) [Link](#)
 2. JobReady Employability Skills (Wadhvani Foundation) [Link](#)

ADDITIONAL INFORMATION

- **Achievement:** Secured Runner Up position at Techvision-2K25, Sahyadri's flagship annual project exhibition, for the Digital Beedi Branch Management System, recognized for its innovative automation approach, real world social impact, and efficient digital management solution.
- **Languages:** Kannada, English, Hindi
- **Interests:** Cricket, Reading Books, Painting