

DHARSHAN A

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SUMMARY

Proficient in C++ and Python, with knowledge of Data Structures and Algorithms (DSA). Experienced in implementing efficient algorithms, solving problems, and optimizing code for performance. Passionate about continuous learning, with the ability to apply programming concepts to real-world challenges.

PROJECTS

Night Patrol Robot

- Developed an autonomous robot for night-time security surveillance, utilizing a line-following mechanism and advanced sensing technologies using Raspberry Pi and Arduino.
- Demonstrated the robot's capability to Avoid Obstacles, capture and transmit live images, enhancing security measures.

Line-Following Robot for Patient Monitoring

- Designed an autonomous robot for hospital ward surveillance. Uses ultrasonic sensors to detect distance-based patient status.
- Displays status using RGB LEDs for real-time indication and conveys patient conditions to doctors at the end of the patrol, Enhances hospital efficiency through automation and real-time monitoring.

SKILLS

- **Programming Languages** : C++, Python
- **Database** : MySQL
- **Python Libraries** : NumPy, Pandas, Seaborn, Matplotlib
- **Developer Tools** : Visual Studio Code, Pycharm, Jupyter Notebook
- **Soft Skills** : Time Management, Communication, Team Work
- **Languages** : English, Kannada, Telugu

EDUCATION

Siddaganga Institute of Technology

2022 – 2026

- Bachelor of Engineering in Electronics and Communications (CGPA of **8.58**)

CERTIFICATIONS

1. Python for Data Professionals

[Certificate link](#)

- Proficient in leveraging Python libraries such as Pandas, NumPy, and Matplotlib to drive data-driven decision-making.

2. C++

[Certificate link](#)

- Developed an understanding over Object oriented programming in C++.

3. Data Structures and Algorithms in C++

[Certificate link](#)

- Developed an understanding over different algorithms and data structures. Solved over **100+** problems on [Leetcode](#) and [GFG](#), **500+** problems on [Codechef](#).

INVOLVEMENT

Member of Institute of Electrical and Electronics Engineers (IEEE SIT SB)

2024 - 2025

Position : Board Member

- Contributed to organizing and managing National level events and workshops.
- Collaborated with team members to engage the community, enhance networking opportunities, and support professional development.