

# DHARSHAN A

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🔗 LeetCode | GFG | CodeChef

## EDUCATION

Siddaganga Institute of Technology

2022 – 2026

- Bachelor of Engineering in Electronics and Communications (CGPA of **8.23**)

## PROJECTS

### Night Patrol Robot

- Developed an autonomous robot for night-time patrolling using a line-following mechanism, equipped with obstacle detection and facial recognition to enhance intruder detection in low-light conditions.
- Implemented real-time image capture and alert system using Raspberry Pi and Telegram bot, ensuring immediate notification of unauthorized access to security personnel.
- **Tech Stack:** Raspberry Pi, Arduino Uno, OpenCV, Python, Arduino IDE, Telegram Bot API, IR/PIR/Ultrasonic Sensors, DC/Servo Motors.

### Crop Recommendation System based on Wheather and Soil condition

- Built an **LSTM**-based Crop Recommendation System, achieving over **97%** prediction accuracy by effectively training the model on **2,200+** agricultural records with key environmental features.
- Utilized live weather data (**temperature, humidity, rainfall**) and simulated soil data (**N, P, K, pH**) to automate predictions without manual input, improving usability and efficiency.
- **Tech Stack:** Python, TensorFlow (LSTM), Streamlit, Pandas, scikit-learn, wttr.in API

## SKILLS

- **Programming Languages :** C++, Python, PHP
- **Database :** MySQL
- **Web Development :** HTML, CSS, Javascript(Basics), Streamlit
- **CS Fundamentals :** Machine Learning, Deep Learning, Computer Networks, OOPS, Data structures
- **Developer Tools :** Visual Studio Code, Pycharm, Jupyter Notebook, Colab
- **Soft Skills :** Time Management, Communication, Team Work, Adaptability
- **Languages :** English, Kannada, Telugu

## CERTIFICATIONS

[Python Essentials 1](#) 🔗

[Python Essentials 2](#) 🔗

[Python for Data Professionals](#) 🔗

[CCNA: Introduction to Networks](#) 🔗

[Data Structures and Algorithms in C++](#) 🔗

## ROLE OF RESPONSIBILITY

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

2024 - 2025

Position : Board Member

- Coordinated in organizing and managing **IdEEEas**, a National level technical symposium with **3000+** participants and **WIE CODE**, a 12-hour National Level Hackathon.
- Collaborated with the team to boost community engagement and networking.