

# DINESH B.K.S

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## SUMMARY

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- Motivated and detail-oriented Electronics and Communication Engineering graduate with a foundational understanding of software and embedded systems.
- Proficient in Java, Python, and C++, with hands-on experience building simple web applications using HTML, CSS, JavaScript, and PHP.
- Completed beginner-level development projects such as a note-taking app, dynamic event calendar, and to-do list with responsive interfaces.
- Basic understanding of backend integration using MySQL and dynamic page handling through PHP.
- Familiar with microcontroller-based IoT systems using Arduino, NodeMCU, and Raspberry Pi.
- Enthusiastic about learning new technologies and improving software development skills through self-practice and real-world projects.
- Quick learner and effective team player, eager to contribute to development teams and gain deeper experience in full-stack and IoT-based applications.

## EDUCATION

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- **Sri Sivasubramaniya Nadar College of Engineering**, Chennai 2021 – 2025  
B.E. in Electronics and Communication Engineering — CGPA: 7.66 / 10
- **St. Patrick's Hr. Sec. School**, Puducherry 2021  
12<sup>th</sup> Grade – State Board — Percentage: 91
- **St. Patrick's Hr. Sec. School**, Puducherry 2019  
10<sup>th</sup> Grade – State Board — Percentage: 92

## TECHNICAL SKILLS

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- **Languages:** Java, Python, C++, HTML, CSS, Js
- **Tools:** Arduino, NodeMCU, Git, VS Code
- **Concepts:** Data Structures, OOP, SQL, Embedded Systems

## PROJECTS

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- **Dynamic Event Calendar**  
Designed and implemented a dynamic event calendar using PHP and HTML, allowing users to add, update, and delete events seamlessly. Integrated a responsive user interface with real-time updates and event categorization. Utilized MySQL for backend data management, ensuring efficient data retrieval and storage. Enhanced user experience with interactive features such as event filtering and color-coded event types. Optimized the calendar's performance for fast loading and smooth navigation. Conducted thorough testing to ensure functionality and user satisfaction.
- **Note Taking Application**  
Built a responsive note-taking app using HTML, CSS, and JavaScript. Included features like text formatting, category-based organization, and search functionality to efficiently manage notes.
- **Simple To-Do List**  
Developed a basic task manager using HTML, CSS, and JavaScript that enables users to add, edit, and delete tasks with an intuitive and responsive interface.
- **Plant Disease Prediction Using ML**  
Developed a CNN-based machine learning model to detect plant diseases from leaf images. Included image preprocessing, feature extraction, and high-accuracy classification.
- **Alarm System Using Arduino**  
Built a smart wake-up alarm system using light sensors, buzzers, and vibration motors. Demonstrated hardware-software integration skills with Arduino.

- **IoT-Based Smart Water Management System**

Designed a system using an ultrasonic sensor and NodeMCU to monitor tank water levels. Enabled real-time cloud-based monitoring and automated refilling.

- **Smart Animal Detection System for Parked Vehicles**

Designed an IoT-based solution using Raspberry Pi, a camera module, and YOLO for detecting stray animals under parked vehicles. Enabled real-time alerts via buzzer and potential mobile notifications to prevent accidental injuries. Showcased a scalable, AI-powered system for urban road safety and animal welfare enhancement.

## CERTIFICATIONS

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- NPTEL – Enclosure Design of Electronic Equipment
- NPTEL – Industrial IoT 4.0
- NPTEL – Natural Resource Management
- Web Stack Academy – MERN Stack Development

## EXTRACURRICULAR ACTIVITIES

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- Solving programming problems on GeeksforGeeks regularly.
- Enthusiastic self-learner with daily habit of learning new tech topics.

## INTERESTS

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- Listening to music, playing cricket, and bike riding.