

Diya Harwalkar

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Skills

- Java | JavaScript | OOPS | C | MySQL | Git | HTML/CSS | PHP | Artificial Intelligence
- Cloud Computing | Machine Learning | Full Stack Development
- Teamwork | Communication | Leadership | Problem Solving | Critical Thinking
- English | Hindi – All professional proficiency or above

Education

BMS Institute Of Technology and Management

- Computer Science and Engineering

Class of 2026

Bengaluru, KA

Chethana PU College, Bangalore

- Pre-University - State

Class of 2022

Bengaluru, KA

Delhi Public School Bangalore North

- Primary and High School - CBSE

Class of 2020

Bengaluru, KA

Selected Projects

Student Activity Management System

- Built a web-based system to manage student registration, attendance, grades, and reports for academic administration.
- Integrated secure, role-based user access to support workflows for administrators, faculty, students, and parents.
- Streamlined performance tracking and automated notifications through an intuitive, real-time dashboard interface.
- **Skills Used:** PHP, MySQL, HTML, CSS, JavaScript, SQL, Authentication & Role Management, Data Analytics

EV Charging Station Finder & Slot Booking System

- Engineered a web platform enabling EV users to find nearby charging stations and book slots in real time.
- Integrated geolocation, slot tracking, and live station status for a seamless charging experience.
- Built the backend with Flask and REST APIs; developed the frontend using HTML, CSS, JavaScript, and PHP.
- **Skills Used:** Python, Flask, SQL/NoSQL, REST APIs, Geolocation Services, HTML, CSS, JavaScript, MySQL, PHP

NutriSnap and Optimal Eats

- Created a web-based solution combining a food calorie analyzer and personalized diet planner using AI/ML techniques.
- Trained a CNN model for real-time food image recognition and implemented an LSTM model for adaptive meal recommendations.
- Built a fully responsive interface with React, Next.js, and Tailwind CSS to ensure a seamless cross-device user experience.
- **Skills Used:** Python, Machine Learning, Deep Learning, Web Development

Optimal Irrigation System

- Designed an optimal irrigation layout to minimize water distribution distance across agricultural fields.
- Modeled the irrigation network using graph theory by representing fields as nodes and pipes as weighted edges.
- Applied Prim's Algorithm with NetworkX in Python to compute the most efficient water routing path.
- **Skills Used:** Python, Graph Theory, Prim's Algorithm, NetworkX, Data Structures.

Leadership / Positions

Utsaha Vaibhava '25 (College Annual Cultural Fest)

- Contributed to the marketing team for Utsaha Vaibhava 2024, supporting outreach and promotions.
- Directed sponsorship acquisition and stall coordination for UV'25, ensuring smooth execution of vendor operations and logistics.

Rotaract Club Of BMS Yelahanka

- Assisted in organizing Pratibha'24, an outreach event providing a platform for students from government schools in Bangalore to showcase their talents.
- Participated in Food For Thought '24, coordinating a fundraising bake sale initiative to support a social cause.