

# K HARSHA VARDHAN

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## TECHNICAL PROFILE

Computer Science undergraduate pursuing a Bachelor of Technology, with a strong foundation in programming fundamentals, data structures, and analytical problem-solving. Experienced in designing and developing web-based applications, interactive user interfaces, and utility-driven software solutions using Python and modern web technologies. Exposure to building management systems, real-time applications, and data-driven tools through academic and personal projects. Demonstrates a structured approach to writing clean, efficient code and applying technical knowledge to practical, real-world scenarios.

## EDUCATION

<b>2023-2027</b>	<b>Bachelor of Technology in Computer Science Engineering (AI &amp; ML Specialization)</b>	
GITAM University	CGPA: 8.85	Hyderabad, Telangana
<b>2016 - 2020</b>	<b>Intermediate - MPC</b>	
Narayana Junior College	PERCENTAGE: 93.2	Hyderabad, Telangana
<b>2020 – 2021</b>	<b>Class 10th</b>	
DAV Public School Safilguda	PERCENTAGE: 75.6	Hyderabad, Telangana

## TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C, SQL, HTML, CSS  
Web Technologies: React, Next.js, Node.js, Streamlit, Tailwind CSS  
Software Development: Data Structures & Algorithms, Object-Oriented Programming, Responsive UI Design  
Databases & Storage: MySQL  
Tools & Platforms: Git & GitHub, Linux, Docker (basics), VS Code, Jupyter Notebook  
Core Strengths: Problem Solving, Clean Code Practices, Debugging, Application Development, Systematic Thinking

## SKILLS

- |              |                     |                   |                 |
|--------------|---------------------|-------------------|-----------------|
| • Leadership | • Digital Marketing | • Communication   | • Innovation    |
| • Analytics  | • Teamwork          | • Problem Solving | • Collaboration |

## EXPERIENCE

Hands-on technical experience gained through academic and self-driven projects, involving the design and development of web-based applications, implementation of core data structures and algorithms, integration of APIs, and structured debugging. Experienced in writing clean, modular code and building end-to-end solutions using Python and modern web technologies.

# PROJECTS

## **Smart Library Management System | Python, HTML/CSS, JavaScript, Database**

- Designed and developed a web-based library management system to handle book inventory, user records, and issue/return workflows
- Implemented role-based access for administrators and users with form validation and structured data storage
- Focused on usability, clean UI design, and efficient handling of transactional data

## **Weather Forecast Web Application | JavaScript, HTML/CSS, API Integration**

- Built a responsive weather application providing real-time weather updates based on user location or search input
- Integrated third-party weather APIs with error handling and dynamic UI updates
- Optimized user experience through asynchronous data fetching and clean interface design

## **Expense Tracker & Analytics Tool | JavaScript, HTML/CSS, Local Storage**

- Developed an expense tracking application enabling users to record, categorize, and analyse daily expenses
- Implemented data visualization features to display spending patterns and summaries
- Designed intuitive dashboards with persistent data storage for improved usability

## **Image Processing Utility Suite | Python, OpenCV, Tkinter**

- Created desktop-based tools for image-to-PDF conversion, watermarking, and basic image enhancement
- Applied image processing techniques and file handling for efficient media manipulation
- Built user-friendly GUI interfaces to simplify interaction for non-technical users

## **Real-Time Chat Application | JavaScript, Web Technologies**

- Implemented a browser-based real-time chat application supporting instant message exchange
- Designed dynamic interfaces with live message updates and event-driven interactions
- Focused on responsiveness and smooth user experience across devices

## **Personal Portfolio Website | HTML, CSS, JavaScript**

- Designed and deployed a responsive personal portfolio to showcase projects, skills, and technical background
- Emphasized modern UI/UX principles, accessibility, and clean layout structure
- Optimized for performance and cross-browser compatibility