

Vasudha A M

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EDUCATION

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- **SJB Institute of Technology** 2022 - 2026
Under the affiliation of Visvesvaraya Technological University (VTU)
BE/BTech in Computer Science & Engineering **CGPA - 8.05 /10**
 - **Sadhana PU College** 2022
Karnataka Secondary Education Examination Board, Karnataka **Percentage - 78%**
 - **Sri Jnanakshi Vidyaniketan** 2020
CBSE Board, Karnataka **Percentage - 78%**

PROJECTS

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- EcoTrack: Dynamic Geofencing-Based Waste Management Platform** Present
- Built a real-time waste tracking platform using **Flask, PostgreSQL, and Firebase Cloud Messaging**.
 - Implemented **dynamic geofencing** with GeoPy and Shapely to notify users based on a garbage collector's live location.
 - Developed **user and collector modules** with location-based alerts and AI-enabled complaint handling (images/videos).
 - Designed a responsive frontend using **HTML, CSS, JavaScript, and Leaflet.js** for live map visualization.
- GoTogether: Smart Ride-Sharing & Rewards Platform for Smart Mobility** March, 2025
- Developed a multi-functional **progressive web app** enabling pooling and reward-based ride-sharing.
 - Built a scalable backend using **Node.js, Express, and MongoDB**, ensuring high performance and reliability.
 - Built the frontend with **React.js** for a seamless booking experience.
 - Integrated **Google Maps API** for real-time route optimization.
 - Implemented a **SmartCar API** for vehicle data access and tracking.
 - Integrated **Razorpay API** for secure payments and reward redemption.
- CogniChat: A Cognitive Assessment Therapist** December, 2024
- Developed a mental health chatbot using **BERT, GPT, Flask, and MongoDB**.
 - Integrated dynamic **persona switching** based on real-time emotion detection.
 - Designed a user-friendly interface with **HTML, CSS, and JavaScript**.
 - Achieved fast, scalable performance with NLP-based optimization.
- PillPal: Your Daily Dose Wingman** October, 2024
- Developed **PillPal**, a Telegram bot that manages medication reminders and provides AI-generated diet and exercise suggestions
 - Integrated **MongoDB** for user data storage and **OpenAI GPT** for personalised health recommendations
 - Utilised **Python asyncio** for handling asynchronous tasks and scheduling reminders
 - Implemented **regular expressions** for validating user input, such as tablet names and doses

TECHNICAL SKILLS

- **Programming:** Python, C, Data Structures & Algorithms, HTML, CSS, JS, PHP
- **Database:** SQL, MongoDB
- **Development:** Git & GitHub
- **Tools and Frameworks:** Flask, React, GPT, BERT, XAMPP, Canva, VSCode, Eclipse
- **Others:** Operating Systems, Computer Networks
- **SoftSkills:** Communication, Problem-Solving, Teamwork, Time Management, Adaptability

AREA OF INTEREST

- Generative AI
- Blockchain Technology

ACTIVITIES AND ACHIEVEMENTS

- Participated in BGSCET 24 hour Advaya Hackathon
- Participated in SIET Tumkur 24 hour “National Level” Hackathon
- Achieved a top 20 position in SKIT “Build For Bengaluru” 12 hour Hackathon
- Achieved a top 5 position in a college-level Python coding competition.
- Conducted Awareness program on effective usage of social media to high school students