

SANTHOSHIMAA.M.K

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CAREER OBJECTIVE

I am a 3rd year Information Science Engineering student with a strong interest in web development. Skilled in building responsive websites and scalable applications using modern technologies. Eager to apply my knowledge on real-world projects and grow in a collaborative team environment.

EDUCATION QUALIFICATION

- **Bachelor of Engineering – Information Science and Engineering**
CMR Institute of Technology, Bengaluru
CGPA 8.41, 2026 (pursuing)
- **Pre-University Course- Science (PCMC)**
Gopalan Pre-University College, Bengaluru
Percentage: 92.66 %, 2022
- **10th Grade**
Cambridge School, Bengaluru
Percentage: 90%, 2020

TECHNICAL SKILLS

Languages & Algorithms: C-Programming, Java, Python;Data Structures & Algorithms(Java)

Operating Systems: Windows, Ubuntu

Tools & Platforms: Excel, Power BI, Tableau, VS Code, Jupyter Notebook, Google Colab, LaTeX, Eclipse

Version Control: Git, GitHub

Frameworks & Libraries: Node.js,React.js,Flask,Express.js-(Basics)

Web Technologies: HTML, CSS, JavaScript (Basics)

Build & DevOps: Maven, Gradle, Jenkins, Azure Pipelines-(Basics)

Database: MYSQL, MongoDB

PROJECTS

- **Title: Chimudra Fee Tracker-Full Stack Role-Based Secure Fee Management System**
Description: Built a full-stack fee management system tailored for educational institutions to simplify and digitize student fee tracking. The platform enables authenticated users to securely log in, view student details, and record or update fee payment information in real-time. The backend, developed using Node.js and Express.js, handles routing, data operations, and integration with environment-based configurations for secure deployment. The frontend delivers a responsive and clean UI for seamless interaction. This project showcases strong backend development, REST API implementation, and database interaction skills. It demonstrates the practical application of full-stack web development for real-world use cases in the education domain, such as school administration or coaching center operations.
Tech Stack: Node.js, Express.js, MongoDB (or JSON-based storage), HTML, CSS, JavaScript
- **Title: Mobile Accessories Web Application-Full Stack Web App**
Description: Developed a product management web application for mobile accessories using Node.js and Express.js. The system allows users to perform CRUD operations on product listings, including adding, updating, and removing accessories. Integrated a clean, user-friendly interface for managing item details such as name, price, category, and inventory. Backend services were built using Express.js and modularized using middlewares for request handling and validation. Utilized MongoDB (or cloud-based database via cloudconfig.js) to store and retrieve structured data efficiently. Employed environment configuration for secure and scalable deployment practices.This project showcases strong backend development skills, API integration, and the ability to build functional, real-world systems for inventory and product management in an e-commerce-like environment.
Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, Mapbox API

- **Title: Used Cloth Processing and Management System-Python(Flask) Web App**

Description: Designed and developed a full-stack cloth management system to streamline the collection and tracking of donated clothing items. The application includes a secure user authentication system that controls access to the main dashboard. Once logged in, users can add donor information, item details, and timestamps through an intuitive form interface. Implemented asynchronous data handling using AJAX to allow smooth communication between the frontend and backend without page reloads. The backend, built with Flask, manages API endpoints, routes, and validations, while storing submitted data in a lightweight SQLite database. The project focuses on delivering a clean user experience with real-time updates and efficient data processing. It demonstrates practical knowledge of full-stack development, REST API design, state management, and user-centric UI building. The system can serve as a foundation for NGO donation management platforms or small-scale inventory systems.

Tech Stack: Python, HTML, CSS, JavaScript, AJAX, REST API

- **Title: Alzheimer's Disease Classification and Prediction Using Transfer Learning (In Progress)**

Description: I am collaborating with two team members to build a machine learning system that classifies different stages of Alzheimer's disease—Cognitively Normal (CN), Mild Cognitive Impairment (MCI), and Alzheimer's Disease (AD)—and predicts disease presence using genome-wide expression data. The project employs transfer learning to enhance model performance on limited biomedical datasets, utilizing techniques like dimensionality reduction, feature selection, and fine-tuned deep learning models. We are actively involved in data preprocessing, normalization, and exploring biologically relevant gene markers to improve classification accuracy. The goal is to support early diagnosis and gain insights into Alzheimer's progression by applying cutting-edge AI to genomic healthcare data.

Tech Stack: Python, TensorFlow, Keras, scikit-learn, Pandas, NumPy, ADNI & miRIAD datasets

CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

- **Online Courses & Certifications:** JAVA with Data Structures & Algorithms, Java(Udemy), Full Stack Web Development
- **Hackathon:** Participated in a Full Stack Web Development Hackathon organized by **Areta 360** at CMRIT
- **Patents & Copy rights:**
 - i. Filed a patent for **innovative bottle design**.
 - ii. Filed a patent for **ergonomic mouse glove** that can be used to relax your hands.
- **Project Competitions & Entrepreneurship Events:**
 - i. **Demo Day**-Participated in Demo Day Competition at CMRIT (Feb 2025), showcasing a tech-driven solution and receiving feedback from faculty and industry mentors.
 - ii. **Manthan Business Plan Presentation**-Submitted a sustainable business proposal titled **Solar-Root Harvest** for the Manthan Business Plan Event, focused on integrating solar power, IoT, and biodegradable mushroom-root supports to promote eco-friendly hydroponic farming.
 - iii. **YUKTI National Innovation Repository** - Submitted the idea **HERGuard: AuraShield** - An AI-based smart panic response system to the YUKTI National Innovation Repository(Idea/PoC stage). The **idea was recommended in the first stage of evaluation** under key domains such as AI, IoT, Blockchain, and Defence & Security.
- **Workshops & Seminars:** Attended a seminar on DevOps and CI/CD Tools, gaining insights into modern deployment and automation practices.
- **Sports:** Badminton, Table Tennis, Throw Ball
- **NSS (National Service Scheme), CMRIT:**
 - i. Participated in a community outreach visit to a local orphanage, engaging with underprivileged children.
 - ii. Visited a local farm to learn about and promote water conservation techniques as part of an environmental awareness initiative.

PERSONAL DETAILS

Date of Birth : 21 / 02 / 2004
Gender : FEMALE
Nationality : INDIAN
Permanent Address : #8/s, 1st Cross, PARVATHI NAGAR MAIN ROAD, MEDAHALLI, BENGALURU-560049
Linguistic Competency : English, Kannada, Hindi, Telugu, Tamil, Sourashtra
Hobbies :Cooking, Dancing, Painting, Travelling, Singing, Photo/Video Editing