

# Santhoshimaa MK

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## Education

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### CMR Institute of Technology (2022-2026)

*Bachelor of Engineering in Information Science and Engineering*

CGPA: 8.47

### Gopalan PU College (2020-2022)

*Science(PCMC)*

92.66%

### Cambridge School (2020)

*ICSE*

90%

## Projects

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### ToshiTadka: AI-Enhanced Full Stack Food Delivery Platform

- Developed ToshiTadka using React, Node.js, Express.js, MongoDB, enabling restaurant browsing , persistent shopping cart (Context API), and a complete order checkout system.
- Built a RESTful backend API to manage users, restaurants, and orders with secure and efficient data handling.
- Integrated Google Gemini AI to create a “Cravings Solver” for dish recommendations and a “Foodie Friend” chatbot for food discovery and real-time order updates.
- **Tech Stack: React, Node.js, Express.js, MongoDB, Gemini API**

### Cart-Enabled Mobile Accessories Web Platform

- Developed a full-stack web platform for listing and managing mobile accessories, implementing a responsive frontend with HTML, CSS, and JavaScript.
- Built backend services with Node.js and Express.js, supporting CRUD operations, secure user authentication, product uploads, and inventory management.
- Integrated MongoDB for database storage and Mapbox API for shop location display, enabling smooth cart flow and structured product catalog for enhanced user experience.
- **Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, Mapbox API**

### Robust Alzheimer’s disease classification using genome-wide biomarker data

- Built two machine learning models: a binary classifier for Alzheimer’s detection and a multi-class model for staging using genome-wide biomarker data.
- Evaluated multiple ML algorithms to achieve robust predictions, enabling **early detection** and providing insights into disease progression and biomarker significance.
- Implemented data preprocessing, feature selection, and genetic pattern analysis to reduce dimensionality and enhance predictive performance while managing the complexity of genomic datasets.
- **Tech Stack: Python, scikit-learn, Pandas, NumPy, ADNI (Alzheimer’s disease Neuroimaging Initiative) dataset.**

## Technical Skills

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**Languages & Algorithms:** C, Java, Python; Data Structures and Algorithms in Java

**Web Development:** HTML, CSS, JavaScript (Basics), Express.js, EJS, AJAX API

**Development & Testing Tools:** RESTful APIs, Node.js, Flask, Postman, Thunder Client

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

**Version Control:** Git, GitHub

**Frameworks & Libraries:** Streamlit (Basics), Jinja2

**Database:** MySQL, MongoDB, SQLite

## Co-Curricular & Extra-Curricular Activities

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**Certifications:** Completed hands-on courses in Java with Data Structures & Algorithms, Core Java (Udemy), FSD 30 days challenge

**Hackathons & Patents:** Participated in a Full Stack Web Development Hackathon organized by Areta 360 at CMRIT,

**Patents:** Filed patents for an innovative bottle design and an ergonomic mouse glove aimed at reducing hand strain.

**Projects & Competitions:** Presented projects in YUKTI (AI-based HERGuard), Manthan (Solar-Root Harvest), MSME Demo Day (CMRIT), and showcased Alzheimer’s Detection using genome-wide data.