

# Rani Ramanath Kini

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## EDUCATION

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### Canara Engineering College

*Bachelor of Engineering in Computer Science and Engineering*  
CGPA: 9.17

Mangaluru, Karnataka

*Nov. 2022 – Present*

### Kendriya Vidyalaya INS Kadamba Arga Karwar (CBSE)

*Pre-university course-PCMCs*  
Percentage: 91

Karwar, Karnataka

*April. 2021 – June. 2022*

### Kendriya Vidyalaya INS Kadamba Arga Karwar (CBSE)

*X School*  
Percentage: 80.2

Karwar, Karnataka

*April. 2019 – March. 2020*

## TECHNICAL SKILLS

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**Languages:** C, Core Java, Fundamentals of Python, SQL (MySQL)

**Backend:** Firebase

**Web Development:** HTML, CSS, ReactJS(Basic)

**No Code Platform:** Flutterflow

**Developer Tools:** Git, VS Code, Jupyter Notebook

## PROJECTS

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### NavAI: Smart Indoor Guide for the Visually Impaired | Flutter, Dart, TFLite

*Sept. 2025 – Present*

- Architected a Flutter app for visually impaired users, providing real-time audio navigation using a custom-trained YOLOv8 model (34 classes).
- Integrated a DQN model to analyze visual/pose data and generate actionable voice commands (e.g., "Stop", "Turn left").
- Engineered a hybrid shake-to-alert (SMS-then-Call) emergency system and implemented smart sensor logic for auto-flashlight and ground-scanning tilt detection.

### FindMyRecipe | ReactJS, Vite, Tailwind CSS, Flask, MySQL

*May. 2025 – August. 2025*

- Built an interactive recipe discovery platform using React to help users find dishes through advanced filtering or based on ingredients they own.
- The application features AI-powered recipe generation and a complete user account system for uploading, editing, and deleting personal recipes.

## HACKATHONS AND COMPETITIONS

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### • TITAN 'MakeforMangaluru' Makeathon

*August 2025*

Prototyped a secure payment architecture using an escrow model with automated split payments to guarantee fair and direct disbursement to artisans.

### • SAP Hackfest – Idea Pitch

*May 2025*

Pitched a blockchain-based marketplace concept designed to provide artisans with direct market access and ensure fair trade through a transparent supply chain.

## COURSES AND CERTIFICATES

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### • Introduction to Web Design and Development - LinkedIn Learning

*Dec 2024*

Completed LinkedIn Learning's Web Design and Development course, gaining foundational knowledge in HTML, CSS, and basic web development.

### • SQL (Basic) HackerRank

*July 2024*

Completed HackerRank SQL (Basic) certification, demonstrating proficiency in data retrieval, filtering, sorting, and basic database management.