

# SHWETHA S

6364647995 | [shwethasiddagangaiah17@gmail.com](mailto:shwethasiddagangaiah17@gmail.com) | LinkedIn-Profile | Github-link |

## EDUCATION

<b>Cambridge Institute of Technology</b> <i>Master of Computer Applications</i>	Nov. 2023 – Oct 2025 Bangalore, Karnataka
<b>Vidya Vahini First Grade College</b> <i>Bachelor of Computer Applications</i>	Jun. 2020 – Sep. 2023 Tumkur, Karnataka
<b>Vidya Vahini PU College</b> <i>Pre-University Course</i>	Jun. 2019 – Mar. 2020 Tumkur, Karnataka

## RELEVANT COURSEWORK

- |                        |                           |                     |                           |
|------------------------|---------------------------|---------------------|---------------------------|
| • Data Structures      | • DevOps                  | • Responsive Design | • Artificial Intelligence |
| • Software Methodology | • Database Management     | • Cyber Security    | • Systems Programming     |
| • Computer Networks    | • Problem-Solving and DSA | • Operating System  | • Cloud Computing         |

## PROJECTS

<b>Role-Based Academic Portal</b> <a href="#">REPO</a>	September 2025
<ul style="list-style-type: none"><li>Developed a secure web-based chat system using Flask and MongoDB for real-time communication between Admin, Teacher, and Student roles.</li><li>Implemented role-based authentication and access control to restrict and manage user-specific functionalities.</li><li>Integrated assignment upload, marksheets management, and chatbot modules to streamline academic interactions and automate operations.</li></ul>	
<b>Retrieval-Augmented Generation (RAG) using Large Language Models (LLMs)</b> <a href="#">REPO</a>	August 2024
<ul style="list-style-type: none"><li>Built a dynamic RAG system integrating document ingestion (PDF/PPT), vector-store retrieval, and LLM-based generation for context-aware question answering.</li><li>Engineered a modular rag_engine pipeline to parse, index, and retrieve domain-specific content, enhancing response accuracy.</li><li>Implemented file-processing modules (pdf_processor.py, ppt_generator.py) to transform raw files into structured data for retrieval.</li></ul>	
<b>Toll-Tax Management</b> <a href="#">REPO</a>	September 2023
<ul style="list-style-type: none"><li>Developed a full-stack web application for automated toll collection, vehicle entry management, toll calculation, and transaction logging.</li><li>Integrated real-time transaction processing with dynamic tariff calculation, monthly passes, and vehicle classification for accurate billing.</li><li>Designed interactive dashboards and reports to help managers monitor revenue, vehicle flow, and operational insights efficiently.</li></ul>	

## TECHNICAL SKILLS

**Languages:** C, C++, Java, Python, SQL, HTML, CSS

**Databases:** MongoDB, MySQL

**Technologies / Frameworks:** Linux, Jenkins, Node.js, Git, GitHub

**IDEs & Tools:** Visual Studio Code, Vercel

**Web Technologies:** REST API, React.js

**Core Strengths:** Debugging, Problem Solving, Software Development Lifecycle (SDLC), Team Collaboration

## CERTIFICATIONS

- Artificial Intelligence Fundamentals-[Link](#)