

SHWETHA S

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EDUCATION




Cambridge Institute of Technology
Master of Computer Applications
Vidya Vahini First Grade College
Bachelor of Computer Applications
Vidya Vahini PU College
Pre-University Course

Nov. 2023 – Oct 2025
Bangalore, Karnataka
Jun. 2020 – Sep. 2023
Tumkur, Karnataka
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

- Role-Based Academic Portal**  [REPO](#) September 2025
- Developed a secure web-based chat system using Flask and MongoDB for real-time communication between Admin, Teacher, and Student roles.
 - Implemented role-based authentication and access control to restrict and manage user-specific functionalities.
 - Integrated assignment upload, marksheet management, and chatbot modules to streamline academic interactions and automate operations.
- Retrieval-Augmented Generation (RAG) using Large Language Models (LLMs)**  [REPO](#) August 2024
- Built a dynamic RAG system integrating document ingestion (PDF/PPT), vector-store retrieval, and LLM-based generation for context-aware question answering.
 - Engineered a modular rag_engine pipeline to parse, index, and retrieve domain-specific content, enhancing response accuracy.
 - Implemented file-processing modules (pdf_processor.py, ppt_generator.py) to transform raw files into structured data for retrieval.
- Toll-Tax Management**  [REPO](#) September 2023
- Developed a full-stack web application for automated toll collection, vehicle entry management, toll calculation, and transaction logging.
 - Integrated real-time transaction processing with dynamic tariff calculation, monthly passes, and vehicle classification for accurate billing.
 - Designed interactive dashboards and reports to help managers monitor revenue, vehicle flow, and operational insights efficiently.

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](#)