

# JYOTHI K

Information Science Engineer | Java & Backend Development | AI Enthusiast

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Engineering student with a strong interest in backend development and system design. Gained hands-on experience through a chatbot project involving frontend-backend integration and applied AI techniques. Eager to contribute and grow through internship opportunities.

## EDUCATION

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**T John Institute Of Technology** — *Information Science and Engineering*

*Aug 2022 – Present*

## SKILLS

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- Concepts: OOP, REST APIs, Collections
  - AI Exposure: LLMs (basic), RAG
  - Languages & Tools: Java, Python (basic), SQL, Git, GitHub, VS Code

## PROJECTS

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— *2D Shooting Game in Java (Wild Blue Yonder)*

*Oct 2024 – Dec 2024*

- Tech Used: Java, Java Swing
- Designed and developed a 2D shooter game using Java Swing GUI framework
- Implemented player movement with arrow keys and bullet firing using spacebar
- Created enemy spawning logic at random positions with downward movement
- Handled collision detection between bullets and enemies
- Built game state transitions including start screen, active gameplay, and game over
- Used timers to manage enemy behavior and bullet updates
- Practiced key concepts like event-driven programming, game loops, and rendering.
- GitHub: [github.com/Jyothikannan/Wild-Blue-Yonder](https://github.com/Jyothikannan/Wild-Blue-Yonder)

— *Multitenant AI Chatbot System*

*May 2025 – Jul 2025*

- Contributed to building a custom Large Language Model (LLM) interface using LLaMA 3.2 via Ollama to answer user queries from uploaded documents.
- Integrated frontend and backend, enabling real-time query processing and document upload through a user-friendly interface.
- Designed and implemented a multitenant architecture, ensuring secure and isolated access to document data and chatbot responses per client.
- Added token-aware chunking, embedding generation, and efficient FAISS indexing for contextual document search.
- Developed RESTful APIs for document upload, query submission, and secure admin workflows.
- GitHub (Collaborator): [github.com/Sreekar-Peram/company-docs-chatbot](https://github.com/Sreekar-Peram/company-docs-chatbot)

