

# Jaya Prakash B Y

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## EDUCATION

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### Jyothy Institute of Technology

Bangalore, Karnataka

*Bachelor of engineering in [Artificial Intelligence and Machine Learning Branch]*

*sep. 2024 – oct 2028*

- CGPA: 9.03/10.0
- Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Management, Computer Networks, Software Engineering, Machine Learning

### RNS PU College

Bangalore, Karnataka

*Class XII - Science (PCMB)*

*March 2024*

- Percentage: 90%

## TECHNICAL SKILLS

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**Programming Languages:** C, C++, Python, Java, Latex

**Web Technologies:** HTML, CSS, JavaScript

**Databases:** MySQL

**Tools & Technologies:** Git, GitHub, VS Code, Linux,

**Core Competencies:** Data Structures, Algorithms, Object-Oriented Programming, Database Design, Web Designing

## ACADEMIC PROJECTS

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### Chatbot with Vector Database

Nov 2025

*Technologies: Python, HTML, JavaScript, Vector Database*

- **Main Menu Options**
- Chat with the bot: Interactive conversation mode
- Add knowledge: Add new documents to the database
- View stats: See database statistics
- Search database: Direct similarity search
- Save database: Persist database to file
- Load database: Load database from file
- Designed responsive UI using React and integrated RESTful APIs for backend communication
- Used MongoDB for database management and JWT for secure authentication

### Student Management System

Dec 2025

*Technologies: Java, SQLite*

- Created a Desktop application to manage student records, attendance, and grades
- Implemented CRUD operations with role-based access control for admin and students
- Designed database schema and optimized queries for better performance

### Library Management System

Dec 2025

*Technologies: Java, MySQL*

- Built a desktop application for managing library operations including book issue and return
- Implemented search functionality and automated fine calculation system
- Used JDBC for database connectivity and Swing for GUI development