

Jaya Prakash B Y

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EDUCATION

Jyothy Institute of Technology

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

Bangalore, Karnataka

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

Class XII - Science (PCMB)

Bangalore, Karnataka

March 2024

- Percentage: 90%

TECHNICAL SKILLS

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

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