

# Roshan Kumar

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- **Manipal Institute of Technology [MIT]**

*Bachelor of Technology - Information Technology; CGPA: 7.95*

Udupi, India  
2022 -2026(Expected)

*Courses: Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Computer Networks, Software Engineering, Information Security, Database Management*
- **Bhandarkars' Pre-University College**

*Class XII, 90%*

Kundapura, India  
2020-2022
- **Sri Venkataramana English Medium High School**

*Class X, 97%*

Kundapura,India  
2019

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## SKILLS SUMMARY

- **Programming Languages:** C, C++, Java, Python, HTML5, CSS3, JavaScript
- **Frameworks & Libraries:** Bootstrap, Tailwind CSS, Flask, React, Express, Node.js
- **Tools & Platforms:** Git, GitHub, Postman
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Operating Systems:** Windows, Linux

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## PROJECTS

- **Reading Vault (React, Node.js, Express, MongoDB):** Link
  - Developed a **book library management system** using the **MERN stack**, featuring secure user access via **Google authentication**.
  - Implemented a dynamic **fine management system** to track overdue books and calculate fines.
  - Designed a responsive interface enabling users to **search, request, and manage** library resources.
- **Prediction of Pediatric Respiratory Diseases (Flask, XAI, Tailwind CSS):**
  - Optimized **machine learning models** to predict survival rates for pediatric respiratory diseases with high accuracy.
  - Applied **Explainable AI (XAI)** to ensure medical professionals could interpret predictions easily.
  - Built and deployed a responsive **Flask application** using **Tailwind CSS** for an intuitive user experience.
- **Secure TextDrive (Flask, HTML, CSS, PostgreSQL):** Link
  - Designed a **secure text and file management platform** prioritizing user privacy and data integrity.
  - Implemented **RSA encryption** alongside **digital signatures** and **hashing** for authentication and secure file handling.
  - Leveraged **PostgreSQL** to manage efficient data storage within a user-friendly Flask-based interface.
- **Manipal Resort (React, Express, Node.js, PostgreSQL):**
  - Built a **full-stack resort management system** supporting **room bookings, cab orders, and customer feedback**.
  - Created a responsive frontend with **React**, ensuring seamless cross-device interactions.
  - Implemented a robust backend using **Node.js** and **Express**, integrated with **PostgreSQL** for data storage and management.

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## EXPERIENCE AND EXTRACURRICULAR

- **Full Stack Intern - Accolade Tech Solutions Private Limited:** December 2024 – January 2025
  - Developed a web-based library system utilizing **React, Express, Node.js, and MongoDB**.
  - Integrated **multiple authentication methods** and a **payment gateway** to enable secure user transactions.
  - Streamlined resource management and ensured smooth data retrieval through MongoDB integration.
- **Freelance Plugin Developer - Spigot Minecraft Plugins:** December 2022 – Present
  - Designed and developed **custom Spigot plugins** using **Java** and **Gradle**, achieving over **10,000 free downloads** and **500 premium sales**.
  - Enhanced plugins by integrating advanced features through popular plugin APIs.
  - Managed the entire **plugin lifecycle**, including design, development, distribution, and updates for Minecraft marketplaces.

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## ACHIEVEMENTS AND CERTIFICATIONS

**Indian Patent Application:** 3rd author in Indian patent application no. 202441062830, "System and Method for Predicting Respiratory Illness of Users", filed on Aug 20, 2024.

**Eureka Hackathon:** Secured 4th place in the Eureka Hackathon hosted by KMC for developing a machine learning model to predict ICU admissions.