Roshan Kumar

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EDUCATION

- **Manipal Institute of Technology [MIT]** — Udupi, India
  Bachelor of Technology - Information Technology; CGPA: 7.95 — *2022 -2026(Expected)*
  Courses: *Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Computer Networks, Software Engineering, Information Security, Database Management*

- **Bhandarkars' Pre-University College** — Kundapura, India
  Class XII, 90% — *2020-2022*

- **Sri Venkataramana English Medium High School** — Kundapura, India
  Class X, 97% — *2019*

SKILLS SUMMARY

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

PROJECTS

- **Reading Vault (React, Node.js, Express, MongoDB)**: Link
  - Created a **book library management** server using the **MERN stack**, integrating **Google authentication** for secure user access.
  - Implemented a **fine management system** to track overdue books and calculate fines dynamically.
  - Developed a responsive user interface to enable users to **search, request, and manage** library resources efficiently.

- **Prediction of Pediatric Respiratory Diseases (Flask, XAI, Tailwind CSS)**:
  - Optimized **multiple machine learning models** to predict survival rates for pediatric respiratory diseases.
  - Integrated **Explainable AI (XAI)** techniques to provide transparency in predictions, making the model outputs interpretable for medical professionals.
  - Deployed a responsive **Flask application with Tailwind CSS** for an intuitive user interface.

- **Secure TextDrive (Flask, HTML, CSS, PostgreSQL)**: Link
  - Developed a **secure text and file management platform** to ensure user privacy and data integrity.
  - Applied **RSA encryption** for secure file storage and retrieval, along with **digital signatures** and **hashing** to verify file authenticity.
  - Constructed a user-friendly interface with **Flask** and integrated **PostgreSQL** for efficient data storage and retrieval.

- **Manipal Resort (React, Express, Node.js, PostgreSQL)**:
  - Engineered a **full-stack resort management** system to handle **room bookings, cab orders, and customer ratings**.
  - Designed a responsive frontend using **React**, ensuring seamless user interaction across devices.
  - Built a scalable backend with **Node.js** and **Express**, integrating **PostgreSQL** to manage and store user and resort data effectively.

EXPERIENCE AND EXTRACURRICULAR

- **FullStack Intern - Accolade Tech Solutions Private Limited**: December 2024 - Present
  - Developed a web-based library system using **React, Express, Node.js, and MongoDB.**
  - Integrated **Google login** functionality and a **payment system** to enable user transactions.
  - Enabled efficient resource management and smooth data retrieval through **MongoDB** integration.

- **Freelance Plugin Developer - Spigot Minecraft Plugins**: December 2022 - Present
  - Designed and developed custom Spigot plugins using **Java**, **Gradle**, and **the Spigot API**, achieving over **10,000 free downloads** and **500 premium sales.**
  - Created plugins with **advanced features** by integrating APIs of popular plugins.
  - Managed the complete **plugin lifecycle**, including **design, coding, distribution,** and **updates** on Minecraft marketplaces.

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.