

# Pavan Kumar K R

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## EDUCATION

### **BNM Institute of Technology, Bengaluru**

*B.Tech in Computer Science and Engineering.*

**CGPA: 9.12**

**2022-2026**

### **Creative PU College, Karkala**

*XII, Karnataka State Board.*

**Score: 98.17**

**2020-2022**

### **Karnataka Public School, Koppa**

*SSLC, Karnataka State Board*

**Score: 96.16**

**2020**

## TECHNICAL SKILLS

**Programming Languages:** C, java and Python

**Web Technologies:** HTML, CSS, MongoDB, Express.js, React.js and Node.js

**Databases:** MongoDB, MySQL

**Tools:** Git, GitHub and Power BI

**Devops:** Docker, Jenkins and Kubernetes

**Relevant coursework:** Data Structure and Algorithms, Database Management System, Operating System, Computer Networks and Software Management.

## PROJECTS

### **DevOps-Enabled Web Application | MERN Stack, Docker, Jenkins, CI/CD, AWS EC2**

**2025**

**Full-Stack Development:** Built a dynamic web application using the MERN stack (MongoDB, Express.js, React.js, Node.js) with responsive UI and RESTful API integration.

**DevOps Integration:** Implemented Docker for containerization and Jenkins for CI/CD pipelines, ensuring automated testing, building, and deployment workflows.

**Cloud Deployment:** Deployed the application on AWS EC2, optimizing for scalability and availability in a cloud environment.

### **E-commerce Website | Python, Django, PayPal API**

**2024**

**Backend Development:** Developed a full-featured e-commerce platform using Django, including user authentication, product management, and order processing workflows.

**Payment Integration:** Integrated PayPal API to securely handle online transactions, ensuring smooth and reliable payment processing.

**User Experience:** Designed responsive front-end interfaces and optimized navigation for seamless shopping experience across devices.

### **Agricultural Robot using IoT**

**2023**

Developed an agricultural robot that detects soil moisture content and helps farmers water crops only when necessary.

### **Library Management System**

**2023**

**Full-Stack Development:** Developed a responsive Library Management System using the MERN stack (MongoDB, Express.js, React.js, Node.js) for seamless management of books, users, and borrowing records.

**RESTful API Design:** Built robust backend APIs with Express and Node.js to handle CRUD operations and ensure smooth client-server communication.

**Frontend Implementation:** Designed an intuitive UI with React.js for real-time interaction and efficient user experience.

**Database Integration:** Utilized MongoDB for flexible and scalable data storage, enabling dynamic querying and performance.

### **Bank Management System**

**2023**

Built a banking application in Java to simulate real-world banking functionalities.