

Riya Raulgaonkar

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EDUCATION

VIT Bhopal University, Bhopal, MP Bachelor of Technology in Computer Science and Engineering (AI/ML Specialization) CGPA: 8.65/10	Sept 2022 - July 2026
Pace Junior Science College, Andheri, Mumbai Class XII	Apr 2020 - May 2022
Universal High School, Dahisar, Mumbai Class X	Apr 2010 - May 2020

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, SQL, Java
 - **Networking:** TCP/IP, VLANs, DHCP, DNS, OSPF, Network Security
 - **Tools:** Git, VS Code, Cisco Packet Tracer, Wireshark
 - **Operating Systems:** Windows, Linux
 - **Database:** File Handling, Data Storage, MySQL
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PROJECTS

Enterprise Campus Network Design & Implementation <i>Cisco Packet Tracer, VLANs, OSPF, DHCP, Network Security</i> <ul style="list-style-type: none">• Designed scalable campus network connecting multiple buildings with separate VLANs for different departments• Implemented OSPF routing protocol for efficient data flow and network redundancy• Configured DHCP servers and DNS services for automated IP management• Enhanced network security with port security, access control lists, and authentication protocols	Nov 2024 - Dec 2024
HealthSync: Intelligent Healthcare Management Portal <i>HTML, CSS, Python, Flask, JavaScript, Machine Learning</i> <ul style="list-style-type: none">• Created full-stack web platform for old-age homes with health blogs promoting wellness• Engineered diagnostic backend with ML model to predict diabetes and heart disease risk• Also included blogs to improve the lifestyle of people and NGO websites	May 2025 - June 2025
AquaNet: Smart Water Distribution Management System <i>C, Data Structures, File Handling, Network Protocols</i> <ul style="list-style-type: none">• Developed real-time monitoring system for water distribution with network-based sensor communication• Implemented leakage detection algorithms using pressure anomaly analysis across network nodes• Designed TCP/IP based communication protocol for sensor data transmission	August 2025 - Sept 2025
EcoTrack: Smart Waste Management Optimization System <i>C, Sensor Simulation, Route Optimization</i> <ul style="list-style-type: none">• Developed intelligent fill-level monitoring system using sensor data simulation for predictive waste collection scheduling• Optimized collection routes through dynamic path algorithms reducing fuel consumption by 28% and operational costs• Implemented recycling analytics tracking segregation efficiency and environmental impact metrics across urban zones	Sep 2025 - Present
SecureBank: Enterprise Banking Management System <i>C, File I/O, Data Structures, Network Security</i> <ul style="list-style-type: none">• Built secure banking system with encrypted data transmission and storage• Implemented network security features for secure remote access and transaction processing• Designed audit trail system for regulatory compliance and security monitoring	Oct 2025 - Present

CERTIFICATIONS

- Gen AI by IBM Watson
 - Blockchain Fundamentals by IBM
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ADDITIONAL INFORMATION

- Fluent in English, Hindi, and Marathi
- Active participant in networking projects and cybersecurity challenges
- Strong understanding of network protocols and system-level programming